

PS3.16

DICOM PS3.16 ~~2017a~~2017b - Content Mapping
Resource

PS3.16: DICOM PS3.16 ~~2017a~~2017b - Content Mapping Resource

Copyright © 2017 NEMA

Table of Contents

| | |
|---|-----|
| Notice and Disclaimer | 57 |
| Foreword | 59 |
| 1. Scope and Field of Application | 61 |
| 2. Normative References | 63 |
| 3. Definitions | 69 |
| 4. Symbols and Abbreviations | 71 |
| 5. Conventions | 73 |
| 6. Form of Template Specifications | 75 |
| 6.1. Template Table Field Definition | 76 |
| 6.1.1. Row Number | 77 |
| 6.1.2. Nesting Level (NL) | 77 |
| 6.1.3. Relationship With Source Content Item (Parent) | 77 |
| 6.1.4. Value Type (VT) | 78 |
| 6.1.5. Concept Name | 78 |
| 6.1.6. Value Multiplicity (VM) | 78 |
| 6.1.7. Requirement Type | 78 |
| 6.1.8. Condition | 79 |
| 6.1.9. Value Set Constraint | 79 |
| 6.1.9.1. NUM Units Constraint | 79 |
| 6.1.9.2. CONTAINER Continuation Flag Constraint | 79 |
| 6.1.9.3. SCORD Graphic Type Constraint | 79 |
| 6.2. Special Conventions for Template Tables | 80 |
| 6.2.1. Multiple Value Sets Depending On Different Conditions | 80 |
| 6.2.2. Target Content Items of Relationships | 80 |
| 6.2.3. Inclusion of Templates | 80 |
| 6.2.3.1. Template Parameters | 80 |
| 6.2.4. Post-coordinated Codes and Has Concept Modifier Relationship | 81 |
| 6.2.5. Extension of Templates | 81 |
| 7. DCMR Context Group Specifications | 83 |
| 7.1. Context Group Table Field Definition | 83 |
| 7.2. Special Conventions for Context Group Tables | 83 |
| 7.2.1. Include Context Group | 83 |
| 7.2.2. Units of Measurement | 84 |
| 7.2.3. Extension of Context Groups | 85 |
| 8. Coding Schemes | 87 |
| 8.1. SNOMED | 91 |
| 8.1.1. Use of SNOMED Anatomic Concepts | 91 |
| 8.2. ISO OID | 91 |
| A. Structured Reporting Templates (Normative) | 93 |
| General Templates. | 93 |
| TID 300. Measurement | 93 |
| TID 310. Measurement Properties | 95 |
| TID 311. Measurement Statistical Properties | 95 |
| TID 312. Normal Range Properties | 96 |
| TID 315. Equation or Table | 96 |
| TID 320. Image or Spatial Coordinates | 97 |
| TID 321. Waveform or Temporal Coordinates | 97 |
| TID 350. References to Supporting Evidence | 98 |
| TID 351. Previous Reports | 98 |
| TID 1000. Quotation | 99 |
| TID 1001. Observation Context | 100 |
| TID 1002. Observer Context | 100 |
| TID 1003. Person Observer Identifying Attributes | 101 |
| TID 1004. Device Observer Identifying Attributes | 101 |
| TID 1005. Procedure Context | 102 |
| TID 1006. Subject Context | 103 |
| TID 1007. Subject Context, Patient | 104 |

| | |
|---|-----|
| TID 1008. Subject Context, Fetus | 105 |
| TID 1009. Subject Context, Specimen | 105 |
| TID 1010. Subject Context, Device | 106 |
| TID 1020. Person Participant | 106 |
| TID 1021. Device Participant | 107 |
| TID 1200. Language Designation | 108 |
| TID 1201. Language of Value | 108 |
| TID 1202. Language of Name and Value | 109 |
| TID 1204. Language of Content Item and Descendants | 109 |
| TID 1210. Equivalent Meaning(s) of Concept Name | 110 |
| TID 1211. Equivalent Meaning(s) of Value | 110 |
| TID 1350. Negation Modifier, Presence of Finding | 111 |
| TID 1400. Linear Measurement | 112 |
| TID 1401. Area Measurement | 113 |
| TID 1402. Volume Measurement | 114 |
| TID 1404. Numeric Measurement | 115 |
| TID 1406. Three Dimensional Linear Measurement | 115 |
| TID 1410. Planar ROI Measurements | 116 |
| TID 1411. Volumetric ROI Measurements | 118 |
| TID 1419. ROI Measurements | 121 |
| TID 1420. Measurements Derived From Multiple ROI Measurements | 123 |
| TID 1500. Measurement Report | 125 |
| TID 1501. Measurement Group | 127 |
| TID 1502. Time Point Context | 130 |
| TID 1600. Image Library | 131 |
| TID 1601. Image Library Entry | 131 |
| TID 1602. Image Library Entry Descriptors | 131 |
| TID 1603. Image Library Entry Descriptors for Projection Radiography | 132 |
| TID 1604. Image Library Entry Descriptors for Cross-Sectional Modalities | 133 |
| TID 1605. Image Library Entry Descriptors for CT | 134 |
| TID 1606. Image Library Entry Descriptors for MR | 135 |
| TID 1607. Image Library Entry Descriptors for PET | 135 |
| TID 2000. Basic Diagnostic Imaging Report | 136 |
| TID 2001. Basic Diagnostic Imaging Report Observations | 137 |
| TID 2002. Report Narrative | 138 |
| TID 2005. Transcribed Diagnostic Imaging Report | 138 |
| TID 2006. Imaging Report With Conditional Radiation Exposure and Protection Information | 139 |
| TID 2007. Imaging Procedure Description | 141 |
| TID 2008. Radiation Exposure and Protection Information | 142 |
| TID 2010. Key Object Selection | 143 |
| TID 2020. Spectacle Prescription Report | 144 |
| TID 2021. Template for Spectacle Prescription Details | 145 |
| TID 2100. Macular Grid Thickness and Volume Report | 145 |
| TID 2101. Macular Grid Thickness and Volume Measurement | 146 |
| TID 2102. Quality Rating Identification | 148 |
| Procedure Log IOD Templates. | 148 |
| TID 3001. Procedure Log | 148 |
| TID 3010. Log Entry Qualifiers | 150 |
| TID 3100. Procedure Action | 151 |
| TID 3101. Image Acquisition | 152 |
| TID 3102. Waveform Acquisition | 152 |
| TID 3103. Referenced Object | 153 |
| TID 3104. Consumables | 153 |
| TID 3105. Lesion Identification and Properties | 154 |
| TID 3106. Drugs/Contrast Administered | 155 |
| TID 3107. Device Used | 155 |
| TID 3108. Intervention | 156 |
| TID 3109. Measurements | 157 |
| TID 3110. Impressions or Findings | 157 |
| TID 3111. Percutaneous Entry | 158 |

| | |
|--|-----|
| TID 3112. Specimen Obtained | 158 |
| TID 3113. Patient Support | 159 |
| TID 3114. Patient Assessment | 159 |
| TID 3115. ECG ST Assessment | 161 |
| Quantitative Ventricular Analysis Report SR IOD Templates. | 161 |
| TID 3202. Ventricular Analysis | 162 |
| TID 3205. Calibration | 163 |
| TID 3206. VA Main Results | 165 |
| TID 3207. AA Main Results | 168 |
| TID 3208. Frame-to-Frame Results | 169 |
| TID 3209. Centerline Wall Motion | 170 |
| TID 3210. Radial Based Wall Motion | 171 |
| TID 3211. Landmark Based Wall Motion | 172 |
| Quantitative Arterial Analysis Report SR IOD Templates. | 173 |
| TID 3213. Quantitative Arterial Analysis | 173 |
| TID 3214. Analyzed Segment | 174 |
| TID 3215. Angiographic Lesion Analysis | 176 |
| TID 3216. Stenotic Flow Reserve | 180 |
| TID 3217. Sub-segmental Data | 181 |
| TID 3218. Position in Arterial Segment | 181 |
| TID 3219. Segment Values | 182 |
| IVUS Report Templates. | 183 |
| TID 3250. IVUS Report | 184 |
| TID 3251. IVUS Vessel | 184 |
| TID 3252. IVUS Lesion | 185 |
| TID 3253. IVUS Measurements | 186 |
| TID 3254. IVUS Qualitative Assessments | 187 |
| TID 3255. IVUS Volume Measurement | 188 |
| Stress Testing Report Templates. | 189 |
| TID 3300. Stress Testing Report | 189 |
| TID 3301. Stress Test Procedure Description | 189 |
| TID 3303. Stress Test Phase Data | 191 |
| TID 3304. Stress Test Measurement Group | 191 |
| TID 3307. NM/PET Perfusion Measurement Group | 194 |
| TID 3309. Stress Echo Measurement Group | 196 |
| TID 3311. Stress Test Summary | 197 |
| TID 3312. Physiological Summary | 198 |
| TID 3313. Stress ECG Summary | 199 |
| TID 3317. Stress Imaging Summary | 201 |
| TID 3318. Comparison to Prior Stress Exam | 202 |
| TID 3320. Conclusions and Recommendations | 203 |
| Hemodynamics Report Templates. | 204 |
| TID 3500. Hemodynamics Report | 204 |
| TID 3501. Hemodynamics Measurement Group | 205 |
| TID 3504. Arterial Pressure Measurement | 206 |
| TID 3505. Atrial Pressure Measurement | 207 |
| TID 3506. Venous Pressure Measurement | 207 |
| TID 3507. Ventricular Pressure Measurement | 208 |
| TID 3508. Gradient Measurement | 209 |
| TID 3509. Blood Velocity Measurement | 210 |
| TID 3510. Vital Signs | 211 |
| TID 3515. Cardiac Output Measurement by Indicator Dilution | 212 |
| TID 3516. Blood Lab Measurements | 213 |
| TID 3520. Hemodynamic Clinical Context | 214 |
| TID 3521. Relative Time | 215 |
| TID 3530. Hemodynamic Acquisition Context | 216 |
| TID 3550. Pressure Waveform Measurements | 216 |
| TID 3560. Derived Hemodynamic Measurements | 218 |
| TID 3570. Summary, Hemodynamics | 221 |
| TID 3601. Procedure Context | 222 |

| | |
|--|-----|
| TID 3602. Cardiovascular Patient Characteristics | 222 |
| TID 3603. Procedure Environmental Characteristics | 223 |
| ECG Report Templates. | 224 |
| TID 3700. ECG Report | 224 |
| TID 3701. Clinical Context, ECG (Retired) | 225 |
| TID 3702. Prior ECG Exam | 225 |
| TID 3704. Patient Characteristics for ECG | 225 |
| TID 3708. ECG Waveform Information | 226 |
| TID 3713. ECG Global Measurements | 227 |
| TID 3714. ECG Lead Measurements | 228 |
| TID 3715. ECG Measurement Source | 228 |
| TID 3717. ECG Qualitative Analysis | 229 |
| TID 3718. ECG Interpretive Statement (Retired) | 230 |
| TID 3719. Summary, ECG | 230 |
| Cath Lab Clinical Report Templates. | 230 |
| TID 3800. Cardiac Catheterization Report Root | 231 |
| TID 3802. Cardiovascular Patient History | 232 |
| TID 3803. Patient Presentation, Cath | 234 |
| TID 3806. Cath Procedure | 235 |
| TID 3807. Percutaneous Coronary Intervention Procedure | 237 |
| TID 3808. Lesion Intervention Information | 238 |
| TID 3809. Other Interventional Procedures | 239 |
| TID 3810. Cardiac Catheterization Findings | 239 |
| TID 3812. Hemodynamic Findings | 240 |
| TID 3814. Left Ventriculography Findings | 241 |
| TID 3815. Right Ventriculography Findings | 242 |
| TID 3816. Ventricular Assessment | 243 |
| TID 3817. Coronary Arteriography Findings | 243 |
| TID 3818. Other Cardiographic Findings | 244 |
| TID 3819. Common Findings | 244 |
| TID 3820. Adverse Outcomes, Cath | 245 |
| TID 3824. Summary, Cath | 246 |
| TID 3828. Discharge Summary, Cath | 246 |
| TID 3829. Problem Properties | 247 |
| TID 3830. Procedure Properties | 248 |
| TID 3831. Medical Device Use | 249 |
| CT/MR Cardiovascular Analysis Report Templates. | 249 |
| TID 3900. CT/MR Cardiovascular Analysis Report | 249 |
| TID 3901. Procedure Summary | 250 |
| TID 3902. Vascular Analysis | 250 |
| TID 3905. Calcium Scoring Results | 255 |
| TID 3906. Vascular Section Measurements | 256 |
| TID 3907. Vessel Measurements | 258 |
| TID 3908. Vascular Lesion | 258 |
| TID 3909. Best Illustration of Findings | 260 |
| TID 3910. Flow Quantification | 261 |
| TID 3911. Plaque Properties | 263 |
| TID 3912. Stenosis Properties | 263 |
| TID 3913. Aneurysm Properties | 264 |
| TID 3914. Arterial Dissection Properties | 265 |
| TID 3915. Vascular Occlusion Properties | 265 |
| TID 3916. Stent Properties | 266 |
| TID 3917. Aneurysm Measurements | 266 |
| TID 3920. Ventricular Analysis | 267 |
| TID 3921. Ventricular Measurements | 268 |
| TID 3922. Absolute Values of Ventricular Measurements | 268 |
| TID 3923. BSA-Normalized Ventricular Measurements | 270 |
| TID 3924. Heart Rate-Normalized Ventricular Measurements | 271 |
| TID 3925. Ventricular Thickening Analysis | 272 |
| TID 3926. Myocardial Perfusion Analysis | 273 |

| | |
|--|-----|
| TID 3927. Report Summary | 275 |
| TID 3929. Cardiovascular Analysis Observation Context | 275 |
| TID 3990. Two Dimensional Measurement Graph | 276 |
| Mammography CAD SR IOD Templates. | 277 |
| TID 4000. Mammography CAD Document Root | 278 |
| TID 4001. Mammography CAD Overall Impression/Recommendation | 279 |
| TID 4002. Mammography CAD Impression/Recommendation Body | 280 |
| TID 4003. Mammography CAD Individual Impression/Recommendation | 281 |
| TID 4004. Mammography CAD Composite Feature | 282 |
| TID 4005. Mammography CAD Composite Feature Body | 283 |
| TID 4006. Mammography CAD Single Image Finding | 286 |
| TID 4007. Mammography CAD Breast Composition | 289 |
| TID 4008. Mammography CAD Breast Geometry | 289 |
| TID 4009. Mammography CAD Individual Calcification | 290 |
| TID 4010. Mammography CAD Calcification Cluster | 290 |
| TID 4011. Mammography CAD Density | 291 |
| TID 4012. Mammography CAD Non-lesion | 292 |
| TID 4013. Mammography CAD Selected Region | 292 |
| TID 4014. CAD Image Quality | 293 |
| TID 4015. CAD Detections Performed | 294 |
| TID 4016. CAD Analyses Performed | 294 |
| TID 4017. CAD Detection Performed | 295 |
| TID 4018. CAD Analysis Performed | 296 |
| TID 4019. CAD Algorithm Identification | 297 |
| TID 4020. CAD Image Library Entry | 298 |
| TID 4021. Mammography CAD Geometry | 301 |
| TID 4022. CAD Observation Context | 301 |
| TID 4023. CAD Operating Points | 301 |
| Chest CAD SR IOD Templates. | 302 |
| TID 4100. Chest CAD Document Root | 303 |
| TID 4101. Chest CAD Findings Summary | 304 |
| TID 4102. Chest CAD Composite Feature | 305 |
| TID 4103. Chest CAD Composite Feature Body | 307 |
| TID 4104. Chest CAD Single Image Finding | 308 |
| TID 4105. Chest CAD Descriptors | 310 |
| TID 4106. Response Evaluation | 311 |
| TID 4107. Chest CAD Geometry | 312 |
| TID 4108. Tracking Identifier | 312 |
| Colon CAD SR IOD Templates. | 313 |
| TID 4120. Colon CAD Document Root | 314 |
| TID 4121. Colon CAD Findings Summary | 315 |
| TID 4122. CAD Common Image Properties Entry | 315 |
| TID 4125. Colon CAD Composite Feature | 316 |
| TID 4126. Colon CAD Composite Feature Body | 317 |
| TID 4127. Colon CAD Single Image Finding | 318 |
| TID 4128. Colon CAD Descriptors | 320 |
| TID 4129. Colon CAD Geometry | 321 |
| Breast Imaging Report Templates. | 322 |
| TID 4200. Breast Imaging Report | 323 |
| TID 4201. Breast Imaging Procedure Reported | 324 |
| TID 4202. Breast Imaging Report Narrative | 324 |
| TID 4203. Breast Imaging Assessment | 325 |
| TID 4204. Breast Imaging Report Intervention Section | 325 |
| TID 4205. Breast Composition Section | 327 |
| TID 4206. Breast Imaging Report Finding Section | 327 |
| TID 4207. Breast Imaging Pathology Results | 329 |
| TID 4208. Breast Imaging Report Supplementary Data | 331 |
| OB-GYN Report Templates. | 331 |
| TID 5000. OB-GYN Ultrasound Procedure Report | 331 |
| TID 5001. OB-GYN Patient Characteristics | 333 |

| | |
|--|-----|
| TID 5002. OB-GYN Procedure Summary Section | 333 |
| TID 5003. OB-GYN Fetus Summary | 334 |
| TID 5004. Fetal Biometry Ratio Section | 335 |
| TID 5005. Fetal Biometry Section | 335 |
| TID 5006. Fetal Long Bones Section | 336 |
| TID 5007. Fetal Cranium Section | 336 |
| TID 5008. Fetal Biometry Group | 337 |
| TID 5009. Fetal Biophysical Profile Section | 338 |
| TID 5010. Amniotic Sac Section | 339 |
| TID 5011. Early Gestation Section | 339 |
| TID 5012. Ovaries Section | 340 |
| TID 5013. Follicles Section | 341 |
| TID 5014. Follicle Measurement Group | 341 |
| TID 5015. Pelvis and Uterus Section | 342 |
| TID 5016. LWH Volume Group | 342 |
| TID 5025. OB-GYN Fetal Vascular Ultrasound Measurement Group | 343 |
| TID 5026. OB-GYN Pelvic Vascular Ultrasound Measurement Group | 344 |
| Vascular Ultrasound Report Templates. | 345 |
| TID 5100. Vascular Ultrasound Report | 345 |
| TID 5101. Vascular Patient Characteristics | 349 |
| TID 5102. Vascular Procedure Summary Section | 349 |
| TID 5103. Vascular Ultrasound Section | 350 |
| TID 5104. Vascular Ultrasound Measurement Group | 350 |
| TID 5105. Ultrasound Graft Section | 351 |
| Echocardiography Procedure Report Templates. | 352 |
| TID 5200. Echocardiography Procedure Report | 352 |
| TID 5201. Echocardiography Patient Characteristics | 354 |
| TID 5202. Echo Section | 355 |
| TID 5203. Echo Measurement | 356 |
| TID 5204. Wall Motion Analysis | 357 |
| TID 5220. Pediatric, Fetal and Congenital Cardiac Ultrasound Reports | 359 |
| TID 5221. Cardiac Ultrasound Pediatric Echo Measurement Section | 360 |
| TID 5222. Pediatric, Fetal and Congenital Cardiac Ultrasound Section | 362 |
| TID 5223. Pediatric, Fetal and Congenital Cardiac Ultrasound Measurement | 362 |
| TID 5225. Cardiac Ultrasound Fetal Characteristics | 364 |
| TID 5226. Cardiac Ultrasound Summary Section | 364 |
| TID 5227. Cardiac Ultrasound Fetal Summary Section | 365 |
| TID 5228. Cardiac Ultrasound Fetal Measurement Section | 365 |
| Simplified Adult Echocardiography Templates. | 366 |
| TID 5300. Simplified Echo Procedure Report | 367 |
| TID 5301. Pre-coordinated Echo Measurement | 370 |
| TID 5302. Post-coordinated Echo Measurement | 371 |
| TID 5303. Adhoc Measurement | 375 |
| Implantation Plan SR Document Templates. | 376 |
| TID 7000. Implantation Plan | 377 |
| TID 7001. Related Implantation Reports | 382 |
| Acquisition Context SR IOD Templates. | 382 |
| TID 8101. Preclinical Small Animal Image Acquisition Context | 382 |
| TID 8110. Biosafety Conditions | 385 |
| TID 8121. Animal Housing | 385 |
| TID 8122. Animal Feeding | 388 |
| TID 8130. Anesthesia | 389 |
| TID 8131. Medications and Mixture Medications | 391 |
| TID 8140. Heating Conditions | 392 |
| TID 8150. Circadian Effects | 393 |
| TID 8170. Physiological Monitoring Performed During Procedure | 394 |
| TID 8182. Exogenous Substance Administration | 394 |
| Relevant Patient Information Templates. | 396 |
| TID 9000. Relevant Patient Information for Breast Imaging | 396 |
| TID 9001. Gynecological History | 397 |

| | |
|--|-----|
| TID 9002. Medication, Substance, Environmental Exposure | 399 |
| TID 9003. Previous Procedure | 400 |
| TID 9004. Indicated Problem | 401 |
| TID 9005. Risk Factor | 402 |
| TID 9006. Obstetric History | 403 |
| TID 9007. General Relevant Patient Information | 404 |
| X-Ray Radiation Dose SR IOD Templates. | 405 |
| TID 10001. Projection X-Ray Radiation Dose | 405 |
| TID 10002. Accumulated X-Ray Dose | 408 |
| TID 10003. Irradiation Event X-Ray Data | 409 |
| TID 10003A. Irradiation Event X-Ray Detector Data | 412 |
| TID 10003B. Irradiation Event X-Ray Source Data | 413 |
| TID 10003C. Irradiation Event X-Ray Mechanical Data | 415 |
| TID 10004. Accumulated Fluoroscopy and Acquisition Projection X-Ray Dose | 416 |
| TID 10005. Accumulated Mammography X-Ray Dose | 417 |
| TID 10006. Accumulated Cassette-based Projection Radiography Dose | 417 |
| TID 10007. Accumulated Total Projection Radiography Dose | 418 |
| CT Radiation Dose SR IOD Templates. | 419 |
| TID 10011. CT Radiation Dose | 419 |
| TID 10012. CT Accumulated Dose Data | 420 |
| TID 10013. CT Irradiation Event Data | 422 |
| TID 10014. Scanning Length | 428 |
| TID 10015. CT Dose Check Details | 430 |
| Radiopharmaceutical Radiation Dose SR IOD Templates. | 432 |
| TID 10021. Radiopharmaceutical Radiation Dose | 433 |
| TID 10022. Radiopharmaceutical Administration Event Data | 433 |
| TID 10023. Organ Dose | 436 |
| TID 10024. Radiopharmaceutical Administration Patient Characteristics | 437 |
| Patient Radiation Dose SR IOD Templates. | 438 |
| TID 10030. Patient Radiation Dose | 439 |
| TID 10031. Radiation Dose Estimate | 439 |
| TID 10032. Radiation Dose Estimate Representation | 440 |
| TID 10033. Radiation Dose Estimate Methodology | 441 |
| TID 10034. Radiation Dose Estimate Parameters | 445 |
| B. DCMR Context Groups (Normative) | 447 |
| CID 2. Anatomic Modifier | 447 |
| CID 4. Anatomic Region | 448 |
| CID 5. Transducer Approach | 450 |
| CID 6. Transducer Orientation | 452 |
| CID 7. Ultrasound Beam Path | 452 |
| CID 8. Angiographic Interventional Devices | 453 |
| CID 9. Image Guided Therapeutic Procedures | 453 |
| CID 10. Interventional Drug | 454 |
| CID 11. Route of Administration | 456 |
| CID 12. Radiographic Contrast Agent | 456 |
| CID 13. Radiographic Contrast Agent Ingredient | 459 |
| CID 18. Isotopes in Radiopharmaceuticals | 459 |
| CID 19. Patient Orientation | 460 |
| CID 20. Patient Orientation Modifier | 461 |
| CID 21. Patient Equipment Relationship | 461 |
| CID 23. Cranio-Caudal Angulation | 462 |
| CID 25. Radiopharmaceuticals | 462 |
| CID 26. Nuclear Medicine Projections | 466 |
| CID 27. Basic Cardiac Views | 467 |
| CID 29. Acquisition Modality | 467 |
| CID 30. DICOM Devices | 468 |
| CID 31. Abstract Priors | 469 |
| CID 42. Numeric Value Qualifier | 469 |
| CID 50. Instance Availability Status | 470 |
| CID 82. Units of Measurement | 470 |

| | |
|--|-----|
| CID 83. Units for Real World Value Mapping | 470 |
| CID 84. PET Units | 470 |
| CID 85. SUV Units | 471 |
| CID 91. Functional Condition Present During Acquisition | 472 |
| CID 92. Joint Position During Acquisition | 472 |
| CID 93. Joint Positioning Method | 472 |
| CID 94. Physical Force Applied During Acquisition | 473 |
| CID 100. Quantitative Diagnostic Imaging Procedures | 473 |
| CID 220. Level of Significance | 473 |
| CID 221. Measurement Range Concepts | 474 |
| CID 222. Normality Codes | 474 |
| CID 223. Normal Range Values | 474 |
| CID 224. Selection Method | 474 |
| CID 225. Measurement Uncertainty Concepts | 474 |
| CID 226. Population Statistical Descriptors | 475 |
| CID 227. Sample Statistical Descriptors | 475 |
| CID 228. Equation or Table | 475 |
| CID 230. Yes-No | 476 |
| CID 231. Yes-No Only | 476 |
| CID 240. Present-Absent | 476 |
| CID 241. Present-Absent Only | 476 |
| CID 242. Normal-Abnormal | 477 |
| CID 244. Laterality | 477 |
| CID 250. Positive-Negative | 477 |
| CID 251. Severity of Complication | 478 |
| CID 252. S-M-L Size Descriptor | 478 |
| CID 270. Observer Type | 478 |
| CID 271. Observation Subject Class | 478 |
| CID 400. Audit Event ID | 478 |
| CID 401. Audit Event Type Code | 479 |
| CID 402. Audit Active Participant Role ID Code | 480 |
| CID 403. Security Alert Type Code | 480 |
| CID 404. Audit Participant Object ID Type Code | 481 |
| CID 405. Media Type Code | 481 |
| CID 501. Volumetric View Description | 481 |
| CID 502. Volumetric View Modifier | 482 |
| CID 601. Biosafety Levels | 482 |
| CID 602. Biosafety Control Reasons | 482 |
| CID 603. Animal Room Types | 482 |
| CID 604. Device Reuse | 483 |
| CID 605. Animal Bedding Material | 483 |
| CID 606. Animal Shelter Types | 483 |
| CID 607. Animal Feed Types | 484 |
| CID 608. Animal Feed Sources | 484 |
| CID 609. Animal Feeding Methods | 484 |
| CID 610. Water Types | 485 |
| CID 611. Anesthesia Category Code Type for Small Animal Anesthesia | 485 |
| CID 612. Anesthesia Category Code Type from Anesthesia Quality Initiative (AQI) | 485 |
| CID 613. Anesthesia Induction Code Type for Small Animal Anesthesia | 486 |
| CID 614. Anesthesia Induction Code Type from Anesthesia Quality Initiative (AQI) | 486 |
| CID 615. Anesthesia Maintenance Code Type for Small Animal Anesthesia | 486 |
| CID 616. Anesthesia Maintenance Code Type from Anesthesia Quality Initiative (AQI) | 487 |
| CID 617. Airway Management Method Code Type for Small Animal Anesthesia | 487 |
| CID 618. Airway Management Method Code Type from Anesthesia Quality Initiative (AQI) | 487 |
| CID 619. Airway Management Sub-Method Code Type for Small Animal Anesthesia | 488 |
| CID 620. Airway Management Sub-Method Code Type from Anesthesia Quality Initiative (AQI) | 488 |
| CID 621. Medication Type Code Type for Small Animal Anesthesia | 488 |
| CID 622. Medication Type Code Type from Anesthesia Quality Initiative (AQI) | 489 |
| CID 623. Medication for Small Animal Anesthesia | 491 |
| CID 624. Inhalational Anesthesia Agents for Small Animal Anesthesia | 491 |

| | |
|---|-----|
| CID 625. Injectable Anesthesia Agents for Small Animal Anesthesia | 492 |
| CID 626. Premedication Agents for Small Animal Anesthesia | 492 |
| CID 627. Neuromuscular Blocking Agents for Small Animal Anesthesia | 493 |
| CID 628. Ancillary Medications for Small Animal Anesthesia | 493 |
| CID 629. Carrier Gases for Small Animal Anesthesia | 493 |
| CID 630. Local Anesthetics for Small Animal Anesthesia | 494 |
| CID 631. Phase of Procedure Requiring Anesthesia | 494 |
| CID 632. Phase of Surgical Procedure Requiring Anesthesia | 494 |
| CID 633. Phase of Imaging Procedure Requiring Anesthesia | 494 |
| CID 634. Phase of Animal Handling | 495 |
| CID 635. Heating Method | 495 |
| CID 636. Temperature Sensor Device Component Type for Small Animal Procedures | 496 |
| CID 637. Exogenous Substance Types | 496 |
| CID 638. Exogenous Substance | 496 |
| CID 639. Tumor Graft Histologic Type | 497 |
| CID 640. Fibrils | 497 |
| CID 641. Viruses | 498 |
| CID 642. Cytokines | 498 |
| CID 643. Toxins | 498 |
| CID 644. Exogenous Substance Administration Sites | 498 |
| CID 645. Exogenous Substance Tissue of Origin | 499 |
| CID 646. Preclinical Small Animal Imaging Procedures | 499 |
| CID 647. Position Reference Indicator for Frame of Reference | 500 |
| CID 701. Content Assessment Types | 500 |
| CID 702. RT Content Assessment Types | 501 |
| CID 703. Basis of Assessment | 501 |
| CID 1000. CT Transverse Plane Reference Basis | 501 |
| CID 1001. Anatomical Reference Basis | 501 |
| CID 1002. Anatomical Reference Basis - Head | 502 |
| CID 1003. Anatomical Reference Basis - Spine | 502 |
| CID 1004. Anatomical Reference Basis - Chest | 503 |
| CID 1005. Anatomical Reference Basis - Abdomen/Pelvis | 504 |
| CID 1006. Anatomical Reference Basis - Extremities | 504 |
| CID 1010. Reference Geometry - Planes | 505 |
| CID 1011. Reference Geometry - Points | 505 |
| CID 1015. Patient Alignment Methods | 506 |
| CID 1200. Contraindications For CT Imaging | 506 |
| CID 3000. Audio Channel Source | 506 |
| CID 3001. ECG Leads | 506 |
| CID 3003. Hemodynamic Waveform Sources | 510 |
| CID 3004. Arterial Pulse Waveform | 510 |
| CID 3005. Respiration Waveform | 511 |
| CID 3010. Cardiovascular Anatomic Locations | 511 |
| CID 3011. Electrophysiology Anatomic Locations | 514 |
| CID 3014. Coronary Artery Segments | 516 |
| CID 3015. Coronary Arteries | 517 |
| CID 3016. Major Coronary Arteries | 517 |
| CID 3019. Cardiovascular Anatomic Location Modifiers | 518 |
| CID 3082. Cardiology Units of Measurement (Retired) | 518 |
| CID 3083. Units of Radioactivity | 519 |
| CID 3090. Time Synchronization Channel Types | 519 |
| CID 3101. Cardiac Procedural State Values | 519 |
| CID 3102. Rest-Stress | 519 |
| CID 3104. Cardiac Synchronization Technique | 520 |
| CID 3106. PET Cardiology Protocols | 520 |
| CID 3107. PET Cardiology Radiopharmaceuticals | 520 |
| CID 3108. NM/PET Procedures | 520 |
| CID 3110. Nuclear Cardiology Protocols | 521 |
| CID 3111. Nuclear Cardiology Radiopharmaceuticals | 521 |
| CID 3112. Attenuation Correction | 522 |

| | |
|--|-----|
| CID 3113. Types of Perfusion Defects | 522 |
| CID 3114. Study Quality | 522 |
| CID 3115. Stress Imaging Quality Issues | 522 |
| CID 3116. NM Extracardiac Findings | 523 |
| CID 3117. Attenuation Correction Methods | 523 |
| CID 3118. Level of Risk | 523 |
| CID 3119. LV Function | 524 |
| CID 3120. Perfusion Findings | 524 |
| CID 3121. Perfusion Morphology | 524 |
| CID 3122. Ventricular Enlargement | 524 |
| CID 3200. Stress Test Procedure | 525 |
| CID 3201. Indications for Stress Test | 525 |
| CID 3202. Chest Pain | 525 |
| CID 3203. Exerciser Device | 526 |
| CID 3204. Stress Agents | 526 |
| CID 3205. Indications for Pharmacological Stress Test | 526 |
| CID 3206. Non-invasive Cardiac Imaging Procedures | 527 |
| CID 3207. Stress Test Procedure Phases | 527 |
| CID 3208. Summary Codes Exercise ECG | 528 |
| CID 3209. Summary Codes Stress Imaging | 528 |
| CID 3210. Speed of Response | 528 |
| CID 3211. BP Response | 528 |
| CID 3212. Treadmill Speed | 529 |
| CID 3213. Stress Hemodynamic Findings | 529 |
| CID 3215. Perfusion Finding Method | 529 |
| CID 3217. Comparison Finding | 529 |
| CID 3220. Stress Symptoms | 530 |
| CID 3221. Stress Test Termination Reasons | 530 |
| CID 3227. QTc Measurements | 530 |
| CID 3228. ECG Timing Measurements | 531 |
| CID 3229. ECG Axis Measurements | 532 |
| CID 3230. ECG Findings | 532 |
| CID 3231. ST Segment Findings | 533 |
| CID 3232. ST Segment Location | 534 |
| CID 3233. ST Segment Morphology | 534 |
| CID 3234. Ectopic Beat Morphology | 534 |
| CID 3235. Perfusion Comparison Findings | 535 |
| CID 3236. Tolerance Comparison Findings | 535 |
| CID 3237. Wall Motion Comparison Findings | 535 |
| CID 3238. Stress Scoring Scales | 535 |
| CID 3239. Perceived Exertion Scales | 536 |
| CID 3240. Electrophysiology Measurement Functions and Techniques | 536 |
| CID 3241. Hemodynamic Measurement Techniques | 536 |
| CID 3250. Catheterization Procedure Phase | 537 |
| CID 3254. Electrophysiology Procedure Phase | 538 |
| CID 3261. Stress Protocols | 538 |
| CID 3262. ECG Patient State Values | 539 |
| CID 3263. Electrode Placement Values | 539 |
| CID 3264. XYZ Electrode Placement Values (Retired) | 540 |
| CID 3271. Hemodynamic Physiological Challenges | 540 |
| CID 3335. ECG Annotations | 541 |
| CID 3337. Hemodynamic Annotations | 544 |
| CID 3339. Electrophysiology Annotations | 545 |
| CID 3400. Procedure Log Titles | 545 |
| CID 3401. Types of Log Notes | 545 |
| CID 3402. Patient Status and Events | 546 |
| CID 3403. Percutaneous Entry | 547 |
| CID 3404. Staff Actions | 547 |
| CID 3405. Procedure Action Values | 547 |
| CID 3406. Non-coronary Transcatheter Interventions | 548 |

| | |
|---|-----|
| CID 3407. Purpose of Reference to Object | 548 |
| CID 3408. Actions With Consumables | 548 |
| CID 3409. Administration of Drugs/Contrast | 548 |
| CID 3410. Numeric Parameters of Drugs/Contrast | 549 |
| CID 3411. Intracoronary Devices | 549 |
| CID 3412. Intervention Actions and Status | 550 |
| CID 3413. Adverse Outcomes | 550 |
| CID 3414. Procedure Urgency | 551 |
| CID 3415. Cardiac Rhythms | 551 |
| CID 3416. Respiration Rhythms | 553 |
| CID 3418. Lesion Risk | 554 |
| CID 3419. Findings Titles | 554 |
| CID 3421. Procedure Action | 554 |
| CID 3422. Device Use Actions | 554 |
| CID 3423. Numeric Device Characteristics | 555 |
| CID 3425. Intervention Parameters | 555 |
| CID 3426. Consumables Parameters | 555 |
| CID 3427. Equipment Events | 555 |
| CID 3428. Imaging Procedures | 556 |
| CID 3429. Catheterization Devices | 556 |
| CID 3430. DateTime Qualifiers | 557 |
| CID 3440. Peripheral Pulse Locations | 557 |
| CID 3441. Patient Assessments | 557 |
| CID 3442. Peripheral Pulse Methods | 557 |
| CID 3446. Skin Condition | 558 |
| CID 3448. Airway Assessment | 558 |
| CID 3451. Calibration Objects | 558 |
| CID 3452. Calibration Methods | 558 |
| CID 3453. Cardiac Volume Methods | 559 |
| CID 3455. Index Methods | 559 |
| CID 3456. Sub-segment Methods | 559 |
| CID 3458. Contour Realignment | 559 |
| CID 3460. Circumferential Extent | 560 |
| CID 3461. Regional Extent | 560 |
| CID 3462. Chamber Identification | 560 |
| CID 3463. Ventricle Identification | 560 |
| CID 3465. QA Reference Methods | 561 |
| CID 3466. Plane Identification | 561 |
| CID 3467. Ejection Fraction | 561 |
| CID 3468. ED Volume | 562 |
| CID 3469. ES Volume | 562 |
| CID 3470. Vessel Lumen Cross-sectional Area Calculation Methods | 562 |
| CID 3471. Estimated Volumes | 562 |
| CID 3472. Cardiac Contraction Phase | 562 |
| CID 3480. IVUS Procedure Phases | 563 |
| CID 3481. IVUS Distance Measurements | 563 |
| CID 3482. IVUS Area Measurements | 563 |
| CID 3483. IVUS Longitudinal Measurements | 564 |
| CID 3484. IVUS Indices and Ratios | 564 |
| CID 3485. IVUS Volume Measurements | 564 |
| CID 3486. Vascular Measurement Sites | 565 |
| CID 3487. Intravascular Volumetric Regions | 565 |
| CID 3488. Min/Max/Mean | 566 |
| CID 3489. Calcium Distribution | 566 |
| CID 3491. IVUS Lesion Morphologies | 566 |
| CID 3492. Vascular Dissection Classifications | 567 |
| CID 3493. IVUS Relative Stenosis Severities | 567 |
| CID 3494. IVUS Non Morphological Findings | 567 |
| CID 3495. IVUS Plaque Composition | 568 |
| CID 3496. IVUS Fiducial Points | 568 |

| | |
|---|-----|
| CID 3497. IVUS Arterial Morphology | 568 |
| CID 3500. Pressure Units | 568 |
| CID 3502. Hemodynamic Resistance Units | 569 |
| CID 3503. Indexed Hemodynamic Resistance Units | 569 |
| CID 3510. Catheter Size Units | 569 |
| CID 3515. Specimen Collection | 569 |
| CID 3520. Blood Source Type | 570 |
| CID 3524. Blood Gas Pressures | 570 |
| CID 3525. Blood Gas Content | 570 |
| CID 3526. Blood Gas Saturation | 571 |
| CID 3527. Blood Base Excess | 571 |
| CID 3528. Blood pH | 571 |
| CID 3529. Arterial / Venous Content | 572 |
| CID 3530. Oxygen Administration Actions | 572 |
| CID 3531. Oxygen Administration | 572 |
| CID 3550. Circulatory Support Actions | 572 |
| CID 3551. Ventilation Actions | 572 |
| CID 3552. Pacing Actions | 573 |
| CID 3553. Circulatory Support | 573 |
| CID 3554. Ventilation | 573 |
| CID 3555. Pacing | 573 |
| CID 3560. Blood Pressure Methods | 574 |
| CID 3600. Relative Times | 574 |
| CID 3602. Hemodynamic Patient State | 574 |
| CID 3604. Arterial Lesion Locations | 574 |
| CID 3606. Arterial Source Locations | 575 |
| CID 3607. Venous Source Locations | 576 |
| CID 3608. Atrial Source Locations | 577 |
| CID 3609. Ventricular Source Locations | 578 |
| CID 3610. Gradient Source Locations | 578 |
| CID 3611. Pressure Measurements | 579 |
| CID 3612. Blood Velocity Measurements | 579 |
| CID 3613. Hemodynamic Time Measurements | 580 |
| CID 3614. Valve Areas, Non-mitral | 580 |
| CID 3615. Valve Areas | 580 |
| CID 3616. Hemodynamic Period Measurements | 580 |
| CID 3617. Valve Flows | 581 |
| CID 3618. Hemodynamic Flows | 581 |
| CID 3619. Hemodynamic Resistance Measurements | 581 |
| CID 3620. Hemodynamic Ratios | 582 |
| CID 3621. Fractional Flow Reserve | 582 |
| CID 3627. Measurement Type | 582 |
| CID 3628. Cardiac Output Methods | 583 |
| CID 3629. Procedure Intent | 583 |
| CID 3630. Cardiovascular Anatomic Locations | 584 |
| CID 3640. Hypertension | 584 |
| CID 3641. Hemodynamic Assessments | 584 |
| CID 3642. Degree Findings | 585 |
| CID 3651. Hemodynamic Measurement Phase | 585 |
| CID 3663. Body Surface Area Equations | 585 |
| CID 3664. Oxygen Consumption Equations and Tables | 586 |
| CID 3666. P50 Equations | 586 |
| CID 3667. Framingham Scores | 586 |
| CID 3668. Framingham Tables | 587 |
| CID 3670. ECG Procedure Types | 587 |
| CID 3671. Reason for ECG Exam | 587 |
| CID 3672. Pacemakers | 588 |
| CID 3673. Diagnosis (Retired) | 588 |
| CID 3675. Other Filters (Retired) | 588 |
| CID 3676. Lead Measurement Technique | 588 |

| | |
|--|-----|
| CID 3677. Summary Codes ECG | 588 |
| CID 3678. QT Correction Algorithms | 589 |
| CID 3679. ECG Morphology Descriptions (Retired) | 589 |
| CID 3680. ECG Lead Noise Descriptions | 589 |
| CID 3681. ECG Lead Noise Modifiers (Retired) | 590 |
| CID 3682. Probability (Retired) | 590 |
| CID 3683. Modifiers (Retired) | 590 |
| CID 3684. Trend (Retired) | 590 |
| CID 3685. Conjunctive Terms (Retired) | 590 |
| CID 3686. ECG Interpretive Statements (Retired) | 590 |
| CID 3687. Electrophysiology Waveform Durations | 590 |
| CID 3688. Electrophysiology Waveform Voltages | 591 |
| CID 3689. ECG Global Waveform Durations | 592 |
| CID 3690. ECG Control Variables Numeric | 593 |
| CID 3691. ECG Control Variables Text | 593 |
| CID 3692. ICDs | 594 |
| CID 3700. Cath Diagnosis | 594 |
| CID 3701. Cardiac Valves and Tracts | 596 |
| CID 3703. Wall Motion | 596 |
| CID 3704. Myocardium Wall Morphology Findings | 596 |
| CID 3705. Chamber Size | 597 |
| CID 3706. Overall Contractility | 597 |
| CID 3707. VSD Description | 597 |
| CID 3709. Aortic Root Description | 598 |
| CID 3710. Coronary Dominance | 598 |
| CID 3711. Valvular Abnormalities | 598 |
| CID 3712. Vessel Descriptors | 598 |
| CID 3713. TIMI Flow Characteristics | 599 |
| CID 3714. Thrombus | 599 |
| CID 3715. Lesion Margin | 599 |
| CID 3716. Severity | 600 |
| CID 3717. Myocardial Wall Segments | 600 |
| CID 3718. Myocardial Wall Segments in Projection | 601 |
| CID 3719. Canadian Clinical Classification | 601 |
| CID 3720. Cardiac History Dates (Retired) | 602 |
| CID 3721. Cardiovascular Surgeries | 602 |
| CID 3722. Diabetic Therapy | 602 |
| CID 3723. MI Types | 603 |
| CID 3724. Smoking History | 603 |
| CID 3726. Indications for Coronary Intervention | 603 |
| CID 3727. Indications for Catheterization | 603 |
| CID 3728. Cath Findings | 604 |
| CID 3729. Admission Status | 605 |
| CID 3730. Insurance Payor | 605 |
| CID 3733. Primary Cause of Death | 606 |
| CID 3735. Acute Coronary Syndrome Time Period | 606 |
| CID 3736. NYHA Classification | 606 |
| CID 3737. Non-invasive Test - Ischemia | 607 |
| CID 3738. Pre-Cath Angina Type | 607 |
| CID 3739. Cath Procedure Type | 607 |
| CID 3740. Thrombolytic Administration | 608 |
| CID 3741. Medication Administration, Lab Visit | 608 |
| CID 3742. Medication Administration, PCI | 608 |
| CID 3743. Clopidogrel/Ticlopidine Administration | 608 |
| CID 3744. EF Testing Method | 609 |
| CID 3745. Calculation Method | 609 |
| CID 3746. Percutaneous Entry Site | 609 |
| CID 3747. Percutaneous Closure | 610 |
| CID 3748. Angiographic EF Testing Method | 610 |
| CID 3749. PCI Procedure Result | 610 |

| | |
|--|-----|
| CID 3750. Previously Dilated Lesion | 611 |
| CID 3752. Guidewire Crossing | 611 |
| CID 3754. Vascular Complications | 611 |
| CID 3755. Cath Complications | 611 |
| CID 3756. Cardiac Patient Risk Factors | 612 |
| CID 3757. Cardiac Diagnostic Procedures | 613 |
| CID 3758. Cardiovascular Family History | 614 |
| CID 3760. Hypertension Therapy | 614 |
| CID 3761. Antilipemic Agents | 614 |
| CID 3762. Antiarrhythmic Agents | 615 |
| CID 3764. Myocardial Infarction Therapies | 615 |
| CID 3769. Concern Types | 615 |
| CID 3770. Problem Status | 615 |
| CID 3772. Health Status | 616 |
| CID 3773. Use Status | 616 |
| CID 3774. Social History | 616 |
| CID 3777. Implanted Devices | 617 |
| CID 3778. Stages | 617 |
| CID 3802. Plaque Structures | 617 |
| CID 3804. Stenosis Measurement Methods | 618 |
| CID 3805. Stenosis Types | 618 |
| CID 3806. Stenosis Shape | 618 |
| CID 3807. Volume Measurement Methods | 619 |
| CID 3808. Aneurysm Types | 619 |
| CID 3809. Associated Conditions | 619 |
| CID 3810. Vascular Morphology | 620 |
| CID 3813. Stent Findings | 620 |
| CID 3814. Stent Composition | 621 |
| CID 3815. Source of Vascular Finding | 621 |
| CID 3817. Vascular Sclerosis Types | 621 |
| CID 3820. Non-invasive Vascular Procedures | 622 |
| CID 3821. Papillary Muscle Included/Excluded | 622 |
| CID 3823. Respiratory Status | 622 |
| CID 3826. Heart Rhythm | 623 |
| CID 3827. Vessel Segments | 623 |
| CID 3829. Pulmonary Arteries | 623 |
| CID 3831. Stenosis Length | 624 |
| CID 3832. Stenosis Grade | 624 |
| CID 3833. Cardiac Ejection Fraction | 624 |
| CID 3835. Cardiac Volume Measurements | 625 |
| CID 3836. Time-based Perfusion Measurements | 625 |
| CID 3837. Fiducial Feature | 625 |
| CID 3838. Diameter Derivation | 625 |
| CID 3839. Coronary Veins | 626 |
| CID 3840. Pulmonary Veins | 626 |
| CID 3843. Myocardial Subsegment | 626 |
| CID 3850. Intravascular OCT Flush Agent | 627 |
| CID 4005. Partial View Section for Mammography | 627 |
| CID 4009. DX Anatomy Imaged | 627 |
| CID 4010. DX View | 628 |
| CID 4011. DX View Modifier | 629 |
| CID 4012. Projection Eponymous Name | 629 |
| CID 4013. Anatomic Region for Mammography | 632 |
| CID 4014. View for Mammography | 632 |
| CID 4015. View Modifier for Mammography | 633 |
| CID 4016. Anatomic Region for Intra-oral Radiography | 634 |
| CID 4017. Anatomic Region Modifier for Intra-oral Radiography | 634 |
| CID 4018. Primary Anatomic Structure for Intra-oral Radiography (Permanent Dentition - Designation of Teeth) | 635 |
| CID 4019. Primary Anatomic Structure for Intra-oral Radiography (Deciduous Dentition - Designation of Teeth) | 636 |
| CID 4020. PET Radionuclide | 637 |

| | |
|--|-----|
| CID 4021. PET Radiopharmaceutical | 638 |
| CID 4025. Primary Anatomic Structure for Intra-oral Radiography (Supernumerary Dentition - Designation of Teeth) | 642 |
| CID 4026. Primary Anatomic Structure for Intra-oral and Craniofacial Radiography - Teeth | 644 |
| CID 4028. Craniofacial Anatomic Regions | 644 |
| CID 4030. CT, MR and PET Anatomy Imaged | 646 |
| CID 4031. Common Anatomic Regions | 646 |
| CID 4032. MR Spectroscopy Metabolites | 649 |
| CID 4033. MR Proton Spectroscopy Metabolites | 650 |
| CID 4040. Endoscopy Anatomic Regions | 650 |
| CID 4042. XA/XRF Anatomy Imaged | 651 |
| CID 4050. Drug or Contrast Agent Characteristics | 652 |
| CID 4051. General Devices | 652 |
| CID 4052. Phantom Devices | 652 |
| CID 4100. T1 Measurement Methods | 653 |
| CID 4101. Tracer Kinetic Models | 653 |
| CID 4102. Perfusion Measurement Methods | 653 |
| CID 4103. Arterial Input Function Measurement Methods | 654 |
| CID 4104. Bolus Arrival Time Derivation Methods | 654 |
| CID 4105. Perfusion Analysis Methods | 654 |
| CID 4106. Quantitative Methods used for Perfusion And Tracer Kinetic Models | 654 |
| CID 4107. Tracer Kinetic Model Parameters | 655 |
| CID 4108. Perfusion Model Parameters | 655 |
| CID 4109. Model-Independent Dynamic Contrast Analysis Parameters | 656 |
| CID 4110. Tracer Kinetic Modeling Covariates | 657 |
| CID 4111. Contrast Characteristics | 657 |
| CID 4200. Ophthalmic Imaging Agent | 657 |
| CID 4201. Patient Eye Movement Command | 657 |
| CID 4202. Ophthalmic Photography Acquisition Device | 658 |
| CID 4203. Ophthalmic Photography Illumination | 658 |
| CID 4204. Ophthalmic Filter | 659 |
| CID 4205. Ophthalmic Lens | 659 |
| CID 4206. Ophthalmic Channel Description | 659 |
| CID 4207. Ophthalmic Image Position | 660 |
| CID 4208. Mydriatic Agent | 660 |
| CID 4209. Ophthalmic Anatomic Structure Imaged | 661 |
| CID 4210. Ophthalmic Tomography Acquisition Device | 661 |
| CID 4211. Ophthalmic OCT Anatomic Structure Imaged | 662 |
| CID 4214. Ophthalmic Horizontal Directions | 662 |
| CID 4215. Ophthalmic Vertical Directions | 663 |
| CID 4216. Ophthalmic Visual Acuity Type | 663 |
| CID 4220. Visual Fixation Quality During Acquisition | 663 |
| CID 4221. Visual Fixation Quality Problem | 663 |
| CID 4222. Ophthalmic Macular Grid Problem | 664 |
| CID 4230. Ophthalmic Ultrasound Axial Measurements Type | 664 |
| CID 4231. Lens Status | 664 |
| CID 4232. Vitreous Status | 665 |
| CID 4233. Ophthalmic Axial Length Measurements Segment Names | 665 |
| CID 4234. Refractive Surgery Types | 665 |
| CID 4235. Keratometry Descriptors | 665 |
| CID 4236. IOL Calculation Formula | 666 |
| CID 4237. Lens Constant Type | 666 |
| CID 4238. Refractive Error Types | 666 |
| CID 4239. Anterior Chamber Depth Definition | 667 |
| CID 4240. Ophthalmic Measurement or Calculation Data Source | 667 |
| CID 4241. Ophthalmic Axial Length Selection Method | 667 |
| CID 4243. Ophthalmic Quality Metric Type | 667 |
| CID 4244. Ophthalmic Agent Concentration Units | 668 |
| CID 4245. Wide Field Ophthalmic Photography Transformation Method | 668 |
| CID 4250. Visual Field Static Perimetry Test Patterns | 668 |
| CID 4251. Visual Field Static Perimetry Test Strategies | 668 |

| | |
|---|-----|
| CID 4252. Visual Field Static Perimetry Screening Test Modes | 669 |
| CID 4253. Visual Field Static Perimetry Fixation Strategy | 669 |
| CID 4254. Visual Field Static Perimetry Test Analysis Results | 670 |
| CID 4255. Visual Field Illumination Color | 670 |
| CID 4256. Visual Field Procedure Modifier | 670 |
| CID 4257. Visual Field Global Index Name | 671 |
| CID 4260. Ophthalmic Mapping Units for Real World Value Mapping | 671 |
| CID 4261. Ophthalmic Mapping Acquisition Method | 671 |
| CID 4262. Retinal Thickness Definition | 671 |
| CID 4263. Ophthalmic Thickness Map Value Type | 672 |
| CID 4264. Ophthalmic Map Purposes of Reference | 672 |
| CID 4265. Ophthalmic Thickness Deviation Categories | 672 |
| CID 4266. Ophthalmic Anatomic Structure Reference Point | 672 |
| CID 4267. Corneal Topography Mapping Units for Real World Value Mapping | 673 |
| CID 4268. Corneal Topography Map Value Type | 673 |
| CID 4270. OCT-A Processing Algorithm Families | 673 |
| CID 4271. En Face Image Types | 674 |
| CID 4272. Opt Scan Pattern Types | 674 |
| CID 4273. Retinal Segmentation Surfaces | 675 |
| CID 5000. Languages | 675 |
| CID 5001. Countries | 676 |
| CID 5002. Organizations | 676 |
| CID 6000. Overall Breast Composition | 676 |
| CID 6001. Overall Breast Composition from BI-RADS® | 676 |
| CID 6002. Change Since Last Mammogram or Prior Surgery | 677 |
| CID 6003. Change Since Last Mammogram or Prior Surgery from BI-RADS® | 677 |
| CID 6004. Mammography Characteristics of Shape | 678 |
| CID 6005. Characteristics of Shape from BI-RADS® | 678 |
| CID 6006. Mammography Characteristics of Margin | 678 |
| CID 6007. Characteristics of Margin from BI-RADS® | 678 |
| CID 6008. Density Modifier | 679 |
| CID 6009. Density Modifier from BI-RADS® | 679 |
| CID 6010. Mammography Calcification Types | 679 |
| CID 6011. Calcification Types from BI-RADS® | 680 |
| CID 6012. Calcification Distribution Modifier | 680 |
| CID 6013. Calcification Distribution Modifier from BI-RADS® | 681 |
| CID 6014. Mammography Single Image Finding | 681 |
| CID 6015. Single Image Finding from BI-RADS® | 681 |
| CID 6016. Mammography Composite Feature | 682 |
| CID 6017. Composite Feature from BI-RADS® | 682 |
| CID 6018. Clockface Location or Region | 683 |
| CID 6019. Clockface Location or Region from BI-RADS® | 683 |
| CID 6020. Quadrant Location | 684 |
| CID 6021. Quadrant Location from BI-RADS® | 684 |
| CID 6022. Side | 684 |
| CID 6023. Side from BI-RADS® | 684 |
| CID 6024. Depth | 685 |
| CID 6025. Depth from BI-RADS® | 685 |
| CID 6026. Mammography Assessment | 685 |
| CID 6027. Assessment from BI-RADS® | 686 |
| CID 6028. Mammography Recommended Follow-up | 686 |
| CID 6029. Recommended Follow-up from BI-RADS® | 687 |
| CID 6030. Mammography Pathology Codes | 687 |
| CID 6031. Benign Pathology Codes from BI-RADS® | 688 |
| CID 6032. High Risk Lesions Pathology Codes from BI-RADS® | 690 |
| CID 6033. Malignant Pathology Codes from BI-RADS® | 690 |
| CID 6034. Intended Use of CAD Output | 692 |
| CID 6035. Composite Feature Relations | 692 |
| CID 6036. Scope of Feature | 693 |
| CID 6037. Mammography Quantitative Temporal Difference Type | 693 |

| | |
|--|-----|
| CID 6038. Mammography Qualitative Temporal Difference Type | 693 |
| CID 6039. Nipple Characteristic | 693 |
| CID 6040. Non-lesion Object Type | 694 |
| CID 6041. Mammography Image Quality Finding | 694 |
| CID 6042. Status of Results | 696 |
| CID 6043. Types of Mammography CAD Analysis | 696 |
| CID 6044. Types of Image Quality Assessment | 697 |
| CID 6045. Mammography Types of Quality Control Standard | 697 |
| CID 6046. Units of Follow-up Interval | 697 |
| CID 6047. CAD Processing and Findings Summary | 697 |
| CID 6048. CAD Operating Point Axis Label | 697 |
| CID 6050. Breast Procedure Reported | 698 |
| CID 6051. Breast Procedure Reason | 699 |
| CID 6052. Breast Imaging Report Section Title | 699 |
| CID 6053. Breast Imaging Report Elements | 700 |
| CID 6054. Breast Imaging Findings | 700 |
| CID 6055. Breast Clinical Finding or Indicated Problem | 701 |
| CID 6056. Associated Findings for Breast | 701 |
| CID 6057. Ductography Findings for Breast | 702 |
| CID 6058. Procedure Modifiers for Breast | 702 |
| CID 6059. Breast Implant Types | 702 |
| CID 6060. Breast Biopsy Techniques | 703 |
| CID 6061. Breast Imaging Procedure Modifiers | 703 |
| CID 6062. Interventional Procedure Complications | 704 |
| CID 6063. Interventional Procedure Results | 704 |
| CID 6064. Ultrasound Findings for Breast | 705 |
| CID 6065. Instrument Approach | 705 |
| CID 6066. Target Confirmation | 705 |
| CID 6067. Fluid Color | 706 |
| CID 6068. Tumor Stages From AJCC | 706 |
| CID 6069. Nottingham Combined Histologic Grade | 707 |
| CID 6070. Bloom-Richardson Histologic Grade | 707 |
| CID 6071. Histologic Grading Method | 707 |
| CID 6072. Breast Implant Findings | 707 |
| CID 6080. Gynecological Hormones | 708 |
| CID 6081. Breast Cancer Risk Factors | 708 |
| CID 6082. Gynecological Procedures | 709 |
| CID 6083. Procedures for Breast | 709 |
| CID 6084. Mammoplasty Procedures | 709 |
| CID 6085. Therapies for Breast | 710 |
| CID 6086. Menopausal Phase | 710 |
| CID 6087. General Risk Factors | 710 |
| CID 6088. OB-GYN Maternal Risk Factors | 711 |
| CID 6089. Substances | 711 |
| CID 6090. Relative Usage, Exposure Amount | 712 |
| CID 6091. Relative Frequency of Event Values | 712 |
| CID 6092. Quantitative Concepts for Usage, Exposure | 712 |
| CID 6093. Qualitative Concepts for Usage, Exposure Amount | 713 |
| CID 6094. Qualitative Concepts for Usage, Exposure Frequency | 713 |
| CID 6095. Numeric Properties of Procedures | 713 |
| CID 6096. Pregnancy Status | 713 |
| CID 6097. Side of Family | 714 |
| CID 6100. Chest Component Categories | 714 |
| CID 6101. Chest Finding or Feature | 714 |
| CID 6102. Chest Finding or Feature Modifier | 715 |
| CID 6103. Abnormal Lines Finding or Feature | 715 |
| CID 6104. Abnormal Opacity Finding or Feature | 715 |
| CID 6105. Abnormal Lucency Finding or Feature | 716 |
| CID 6106. Abnormal Texture Finding or Feature | 717 |
| CID 6107. Width Descriptor | 717 |

| | |
|--|-----|
| CID 6108. Chest Anatomic Structure Abnormal Distribution | 717 |
| CID 6109. Radiographic Anatomy Finding or Feature | 718 |
| CID 6110. Lung Anatomy Finding or Feature | 718 |
| CID 6111. Bronchovascular Anatomy Finding or Feature | 719 |
| CID 6112. Pleura Anatomy Finding or Feature | 719 |
| CID 6113. Mediastinum Anatomy Finding or Feature | 719 |
| CID 6114. Osseous Anatomy Finding or Feature | 720 |
| CID 6115. Osseous Anatomy Modifiers | 721 |
| CID 6116. Muscular Anatomy | 722 |
| CID 6117. Vascular Anatomy | 722 |
| CID 6118. Size Descriptor | 723 |
| CID 6119. Chest Border Shape | 724 |
| CID 6120. Chest Border Definition | 724 |
| CID 6121. Chest Orientation Descriptor | 725 |
| CID 6122. Chest Content Descriptor | 725 |
| CID 6123. Chest Opacity Descriptor | 725 |
| CID 6124. Location in Chest | 726 |
| CID 6125. General Chest Location | 726 |
| CID 6126. Location in Lung | 726 |
| CID 6127. Segment Location in Lung | 726 |
| CID 6128. Chest Distribution Descriptor | 727 |
| CID 6129. Chest Site Involvement | 727 |
| CID 6130. Severity Descriptor | 728 |
| CID 6131. Chest Texture Descriptor | 728 |
| CID 6132. Chest Calcification Descriptor | 728 |
| CID 6133. Chest Quantitative Temporal Difference Type | 729 |
| CID 6134. Chest Qualitative Temporal Difference Type | 729 |
| CID 6135. Image Quality Finding | 729 |
| CID 6136. Chest Types of Quality Control Standard | 730 |
| CID 6137. Types of CAD Analysis | 730 |
| CID 6138. Chest Non-lesion Object Type | 731 |
| CID 6139. Non-lesion Modifiers | 732 |
| CID 6140. Calculation Methods | 732 |
| CID 6141. Attenuation Coefficient Measurements | 732 |
| CID 6142. Calculated Value | 732 |
| CID 6143. Lesion Response | 733 |
| CID 6144. RECIST Defined Lesion Response | 733 |
| CID 6145. Baseline Category | 733 |
| CID 6146. Time Point Types | 734 |
| CID 6147. Response Criteria | 734 |
| CID 6151. Background Echotexture | 734 |
| CID 6152. Orientation | 735 |
| CID 6153. Lesion Boundary | 735 |
| CID 6154. Echo Pattern | 735 |
| CID 6155. Posterior Acoustic Features | 736 |
| CID 6157. Vascularity | 736 |
| CID 6158. Correlation to Other Findings | 736 |
| CID 6159. Malignancy Type | 737 |
| CID 6160. Breast Primary Tumor Assessment From AJCC | 737 |
| CID 6161. Clinical Regional Lymph Node Assessment for Breast | 738 |
| CID 6162. Assessment of Metastasis for Breast | 738 |
| CID 6163. Menstrual Cycle Phase | 739 |
| CID 6164. Time Intervals | 739 |
| CID 6165. Breast Linear Measurements | 739 |
| CID 6166. CAD Geometry Secondary Graphical Representation | 740 |
| CID 6200. Colon Overall Assessment | 740 |
| CID 6201. Colon Finding or Feature | 740 |
| CID 6202. Colon Finding or Feature Modifier | 741 |
| CID 6203. Colon Non-lesion Object Type | 741 |
| CID 6204. Anatomic Non-colon Findings | 742 |

| | |
|---|-----|
| CID 6205. Clockface Location for Colon | 743 |
| CID 6206. Recumbent Patient Orientation for Colon | 743 |
| CID 6207. Colon Quantitative Temporal Difference Type | 743 |
| CID 6208. Colon Types of Quality Control Standard | 743 |
| CID 6209. Colon Morphology Descriptor | 744 |
| CID 6210. Location in Intestinal Tract | 744 |
| CID 6211. Colon CAD Material Description | 744 |
| CID 6212. Calculated Value for Colon Findings | 745 |
| CID 6300. Prostate Sector Anatomy | 745 |
| CID 6301. Prostate Sector Anatomy from PI-RADS v2 | 745 |
| CID 6302. Prostate Sector Anatomy from European Consensus 16 Sector (Minimal) Model | 747 |
| CID 6303. Prostate Sector Anatomy from European Consensus 27 Sector (Optimal) Model | 748 |
| CID 7000. Diagnostic Imaging Report Document Titles | 750 |
| CID 7001. Diagnostic Imaging Report Headings | 751 |
| CID 7002. Diagnostic Imaging Report Elements | 751 |
| CID 7003. Diagnostic Imaging Report Purposes of Reference | 752 |
| CID 7004. Waveform Purposes of Reference | 752 |
| CID 7005. Contributing Equipment Purposes of Reference | 752 |
| CID 7006. SR Document Purposes of Reference | 753 |
| CID 7007. Signature Purpose | 753 |
| CID 7008. Media Import | 753 |
| CID 7009. Purpose of Reference to Predecessor Report | 754 |
| CID 7010. Key Object Selection Document Title | 754 |
| CID 7011. Rejected for Quality Reasons | 755 |
| CID 7012. Best in Set | 756 |
| CID 7013. Source Instance Purposes of Reference | 756 |
| CID 7020. Document Titles | 756 |
| CID 7021. Measurement Report Document Titles | 757 |
| CID 7022. Radiotherapy Purposes of Reference | 757 |
| CID 7023. RT Process Output | 757 |
| CID 7024. RT Process Input | 757 |
| CID 7025. RT Process Input Used | 758 |
| CID 7030. Institutional Departments, Units and Services | 758 |
| CID 7035. Actionable Finding Classification | 761 |
| CID 7036. Image Quality Assessment | 761 |
| CID 7039. Pediatric Size Categories | 761 |
| CID 7040. Broselow-Luten Pediatric Size Categories | 761 |
| CID 7041. Calcium Scoring Patient Size Categories | 762 |
| CID 7042. CMDCTECC Calcium Scoring Patient Size Categories | 762 |
| CID 7050. De-identification Method | 762 |
| CID 7100. RCS Registration Method Type | 763 |
| CID 7101. Brain Atlas Fiducials | 763 |
| CID 7110. Fiducials Categories | 763 |
| CID 7111. Fiducials | 764 |
| CID 7140. Brain Structures for Volumetric Measurements | 764 |
| CID 7150. Segmentation Property Categories | 765 |
| CID 7151. Segmentation Property Types | 765 |
| CID 7152. Cardiac Structure Segmentation Types | 766 |
| CID 7153. CNS Tissue Segmentation Types | 766 |
| CID 7154. Abdominal Organ Segmentation Types | 768 |
| CID 7155. Thoracic Tissue Segmentation Types | 769 |
| CID 7156. Vascular Tissue Segmentation Types | 769 |
| CID 7157. Device Segmentation Types | 770 |
| CID 7158. Artifact Segmentation Types | 770 |
| CID 7159. Lesion Segmentation Types | 770 |
| CID 7160. Pelvic Organ Segmentation Types | 771 |
| CID 7161. Physiology Segmentation Types | 771 |
| CID 7162. Surface Processing Algorithm Families | 772 |
| CID 7165. Abstract Segmentation Types | 772 |
| CID 7166. Common Tissue Segmentation Types | 772 |

| | |
|---|-----|
| CID 7167. Peripheral Nervous System Segmentation Types | 773 |
| CID 7180. Abstract Multi-dimensional Image Model Component Semantics | 774 |
| CID 7181. Abstract Multi-dimensional Image Model Component Units | 776 |
| CID 7182. Abstract Multi-dimensional Image Model Dimension Semantics | 777 |
| CID 7183. Abstract Multi-dimensional Image Model Dimension Units | 777 |
| CID 7184. Abstract Multi-dimensional Image Model Axis Direction | 777 |
| CID 7185. Abstract Multi-dimensional Image Model Axis Orientation | 778 |
| CID 7186. Abstract Multi-dimensional Image Model Qualitative Dimension Sample Semantics | 778 |
| CID 7201. Referenced Image Purposes of Reference | 779 |
| CID 7202. Source Image Purposes of Reference | 779 |
| CID 7203. Image Derivation | 780 |
| CID 7205. Purpose of Reference to Alternate Representation | 781 |
| CID 7210. Related Series Purposes of Reference | 782 |
| CID 7215. Spectroscopy Purpose of Reference | 782 |
| CID 7220. RT Dose Derivation | 782 |
| CID 7221. RT Dose Purpose of Reference | 782 |
| CID 7222. Parametric Map Derivation Image Purpose of Reference | 782 |
| CID 7250. Multi-Frame Subset Type | 783 |
| CID 7260. Diffusion Acquisition Value Types | 783 |
| CID 7261. Diffusion Model Value Types | 783 |
| CID 7262. Diffusion Tractography Algorithm Families | 783 |
| CID 7263. Diffusion Tractography Measurement Types | 784 |
| CID 7270. MR Diffusion Component Semantics | 784 |
| CID 7271. MR Diffusion Anisotropy Indices | 785 |
| CID 7272. MR Diffusion Model Parameters | 785 |
| CID 7273. MR Diffusion Models | 786 |
| CID 7274. MR Diffusion Model Fitting Methods | 786 |
| CID 7275. MR Diffusion Model Specific Methods | 787 |
| CID 7276. MR Diffusion Model Inputs | 787 |
| CID 7277. Units of Diffusion Rate Area Over Time | 787 |
| CID 7300. Implant Materials | 787 |
| CID 7301. Intervention Types | 788 |
| CID 7302. Implant Templates View Orientations | 788 |
| CID 7303. Implant Templates Modified View Orientations | 788 |
| CID 7304. Implant Target Anatomy | 788 |
| CID 7305. Implant Planning Landmarks | 790 |
| CID 7306. Human Hip Implant Planning Landmarks | 790 |
| CID 7307. Implant Component Types | 790 |
| CID 7308. Human Hip Implant Component Types | 790 |
| CID 7309. Human Trauma Implant Component Types | 791 |
| CID 7310. Implant Fixation Method | 791 |
| CID 7320. Planning Methods | 792 |
| CID 7445. Device Participating Roles | 792 |
| CID 7449. Reader Specialty | 792 |
| CID 7450. Person Roles | 793 |
| CID 7451. Family Member | 793 |
| CID 7452. Organizational Roles | 794 |
| CID 7453. Performing Roles | 794 |
| CID 7454. Animal Taxonomic Rank Values | 795 |
| CID 7455. Sex | 796 |
| CID 7456. Units of Measure for Age | 797 |
| CID 7457. Sex - Male Female or Both | 797 |
| CID 7460. Units of Linear Measurement | 797 |
| CID 7461. Units of Area Measurement | 798 |
| CID 7462. Units of Volume Measurement | 798 |
| CID 7464. General Region of Interest Measurement Modifiers | 798 |
| CID 7465. Measurements Derived From Multiple ROI Measurements | 799 |
| CID 7466. PET Region of Interest Measurements | 799 |
| CID 7467. Grey Level Co-occurrence Matrix Measurements | 799 |
| CID 7468. Texture Measurements | 800 |

| | |
|---|-----|
| CID 7469. Generic Intensity and Size Measurements | 800 |
| CID 7470. Linear Measurements | 800 |
| CID 7471. Area Measurements | 801 |
| CID 7472. Volume Measurements | 801 |
| CID 7473. General Area Calculation Methods | 802 |
| CID 7474. General Volume Calculation Methods | 802 |
| CID 7480. Breed | 802 |
| CID 7481. Breed Registry | 870 |
| CID 7482. DX Anatomy Imaged for Animals | 871 |
| CID 7483. Common Anatomic Regions for Animals | 871 |
| CID 7484. DX View for Animals | 873 |
| CID 7486. Mixed Breeds | 876 |
| CID 7490. Research Animal Source Registries | 876 |
| CID 7600. Lymph Node Anatomic Sites | 876 |
| CID 7601. Head and Neck Cancer Anatomic Sites | 881 |
| CID 7701. Fiber Tracts In Brainstem | 882 |
| CID 7702. Projection and Thalamic Fibers | 883 |
| CID 7703. Association Fibers | 883 |
| CID 7704. Limbic System Tracts | 884 |
| CID 7705. Commissural Fibers | 884 |
| CID 7706. Cranial Nerves | 885 |
| CID 7707. Spinal Cord Fibers | 885 |
| CID 7710. Tractography Anatomic Sites | 885 |
| CID 8101. Container Types | 886 |
| CID 8102. Container Component Types | 886 |
| CID 8103. Anatomic Pathology Specimen Types | 887 |
| CID 8104. Breast Tissue Specimen Types | 887 |
| CID 8109. Specimen Collection Procedure | 888 |
| CID 8110. Specimen Sampling Procedure | 888 |
| CID 8111. Specimen Preparation Procedure | 889 |
| CID 8112. Specimen Stains | 889 |
| CID 8113. Specimen Preparation Steps | 895 |
| CID 8114. Specimen Fixatives | 895 |
| CID 8115. Specimen Embedding Media | 896 |
| CID 8120. WSI Referenced Image Purposes of Reference | 896 |
| CID 8121. Microscopy Lens Type | 896 |
| CID 8122. Microscopy Illuminator and Sensor Color | 897 |
| CID 8123. Microscopy Illumination Method | 897 |
| CID 8124. Microscopy Filter | 897 |
| CID 8125. Microscopy Illuminator Type | 898 |
| CID 8130. Staining Protocols | 898 |
| CID 8131. Pathology Imaging Protocols | 898 |
| CID 8132. Magnification Selection | 899 |
| CID 8133. Tissue Selection | 899 |
| CID 8201. Surface Scan Acquisition Types | 899 |
| CID 8202. Surface Scan Mode Types | 900 |
| CID 8203. Surface Scan Registration Method Types | 900 |
| CID 8300. Visual Evaluation Methods | 900 |
| CID 8301. Test Pattern Codes | 900 |
| CID 8302. Measurement Pattern Codes | 903 |
| CID 8303. Display Device Type | 904 |
| CID 9000. Physical Quantity Descriptors | 904 |
| CID 9231. Workitem Definition | 904 |
| CID 9232. Non-DICOM Output Types (Retired) | 905 |
| CID 9233. Requested Report Types | 905 |
| CID 9241. Radiotherapy General Workitem Definition | 905 |
| CID 9242. Radiotherapy Acquisition Workitem Definition | 906 |
| CID 9243. Radiotherapy Registration Workitem Definition | 906 |
| CID 9250. Scheduled Processing Parameter Concept Codes for RT Treatment | 906 |
| CID 9300. Procedure Discontinuation Reasons | 907 |

| | |
|--|-----|
| CID 9301. Modality PPS Discontinuation Reasons | 907 |
| CID 9302. Media Import PPS Discontinuation Reasons | 907 |
| CID 9401. IEC61217 Device Position Parameters | 908 |
| CID 9402. IEC61217 Gantry Position Parameters | 908 |
| CID 9403. IEC61217 Patient Support Position Parameters | 908 |
| CID 10000. Scope of Accumulation | 909 |
| CID 10001. UID Types | 909 |
| CID 10002. Irradiation Event Types | 909 |
| CID 10003. Equipment Plane Identification | 909 |
| CID 10004. Fluoro Modes | 910 |
| CID 10006. X-Ray Filter Materials | 910 |
| CID 10007. X-Ray Filter Types | 910 |
| CID 10008. Dose Related Distance Measurements | 910 |
| CID 10009. Measured/Calculated | 911 |
| CID 10010. Dose Measurement Devices | 911 |
| CID 10011. Effective Dose Evaluation Method | 911 |
| CID 10013. CT Acquisition Type | 912 |
| CID 10014. Contrast Imaging Technique | 912 |
| CID 10015. CT Dose Reference Authorities | 912 |
| CID 10016. Anode Target Material | 912 |
| CID 10017. X-Ray Grid | 913 |
| CID 10020. Source of Projection X-Ray Dose Information | 913 |
| CID 10021. Source of CT Dose Information | 913 |
| CID 10022. Label Types | 913 |
| CID 10023. Size Specific Dose Estimation Method for CT | 914 |
| CID 10024. Water Equivalent Diameter Method | 914 |
| CID 10025. Radiation Dose Reference Points | 914 |
| CID 10030. Detector Types | 915 |
| CID 10031. CR/DR Mechanical Configuration | 915 |
| CID 10032. Projection X-Ray Acquisition Device Types | 915 |
| CID 10033. CT Reconstruction Algorithm | 915 |
| CID 10034. Reason for Repeating Acquisition | 916 |
| CID 10040. Radiopharmaceutical Organ Dose Reference Authority | 916 |
| CID 10041. Source of Radioisotope Activity Information | 916 |
| CID 10043. Intravenous Extravasation Symptoms | 916 |
| CID 10044. Radiosensitive Organs | 917 |
| CID 10045. Radiopharmaceutical Patient State | 918 |
| CID 10046. GFR Measurements | 918 |
| CID 10047. GFR Measurement Methods | 919 |
| CID 10050. Summary Radiation Exposure Quantities | 919 |
| CID 10060. Organs for Radiation Dose Estimates | 920 |
| CID 10061. Absorbed Radiation Dose Types | 920 |
| CID 10062. Equivalent Radiation Dose Types | 920 |
| CID 10063. Radiation Dose Estimate Distribution Representation | 920 |
| CID 10064. Patient Model Type | 921 |
| CID 10065. Radiation Transport Model Type | 921 |
| CID 10066. Attenuator Category | 921 |
| CID 10067. Radiation Attenuator Materials | 922 |
| CID 10068. Estimate Method Types | 922 |
| CID 10069. Radiation Dose Estimation Parameter | 922 |
| CID 10070. Radiation Dose Types | 923 |
| CID 12001. Ultrasound Protocol Types | 923 |
| CID 12002. Ultrasound Protocol Stage Types | 924 |
| CID 12003. OB-GYN Dates | 924 |
| CID 12004. Fetal Biometry Ratios | 925 |
| CID 12005. Fetal Biometry Measurements | 925 |
| CID 12006. Fetal Long Bones Biometry Measurements | 926 |
| CID 12007. Fetal Cranium | 926 |
| CID 12008. OB-GYN Amniotic Sac | 926 |
| CID 12009. Early Gestation Biometry Measurements | 927 |

| | |
|---|-----|
| CID 12011. Ultrasound Pelvis and Uterus | 927 |
| CID 12012. OB Equations and Tables | 927 |
| CID 12013. Gestational Age Equations and Tables | 927 |
| CID 12014. OB Fetal Body Weight Equations and Tables | 930 |
| CID 12015. Fetal Growth Equations and Tables | 931 |
| CID 12016. Estimated Fetal Weight Percentile Equations and Tables | 932 |
| CID 12017. Growth Distribution Rank | 933 |
| CID 12018. OB-GYN Summary | 933 |
| CID 12019. OB-GYN Fetus Summary | 933 |
| CID 12020. Fetal Biometry Anatomic Sites | 933 |
| CID 12021. Fetal Long Bone Anatomic Sites | 934 |
| CID 12022. Fetal Cranium Anatomic Sites | 934 |
| CID 12023. Pelvis and Uterus Anatomic Sites | 935 |
| CID 12030. Ultrasound Contrast/Bolus Agents | 935 |
| CID 12031. Protocol Interval Events | 935 |
| CID 12032. Transducer Scan Pattern | 936 |
| CID 12033. Ultrasound Transducer Geometry | 936 |
| CID 12034. Ultrasound Transducer Beam Steering | 936 |
| CID 12035. Ultrasound Transducer Application | 936 |
| CID 12101. Vascular Summary | 937 |
| CID 12102. Temporal Periods Relating to Procedure or Therapy | 937 |
| CID 12103. Vascular Ultrasound Anatomic Location | 937 |
| CID 12104. Extracranial Arteries | 938 |
| CID 12105. Intracranial Cerebral Vessels | 938 |
| CID 12106. Intracranial Cerebral Vessels (Unilateral) | 939 |
| CID 12107. Upper Extremity Arteries | 939 |
| CID 12108. Upper Extremity Veins | 939 |
| CID 12109. Lower Extremity Arteries | 940 |
| CID 12110. Lower Extremity Veins | 940 |
| CID 12111. Abdominal Arteries (Lateral) | 941 |
| CID 12112. Abdominal Arteries (Unilateral) | 941 |
| CID 12113. Abdominal Veins (Lateral) | 942 |
| CID 12114. Abdominal Veins (Unilateral) | 942 |
| CID 12115. Renal Vessels | 943 |
| CID 12116. Vessel Segment Modifiers | 943 |
| CID 12117. Vessel Branch Modifiers | 943 |
| CID 12118. Measurement Orientation | 944 |
| CID 12119. Vascular Ultrasound Property | 944 |
| CID 12120. Blood Velocity Measurements by Ultrasound | 944 |
| CID 12121. Vascular Indices and Ratios | 945 |
| CID 12122. Other Vascular Properties | 945 |
| CID 12123. Carotid Ratios | 946 |
| CID 12124. Renal Ratios | 946 |
| CID 12140. Pelvic Vasculature Anatomical Location | 946 |
| CID 12141. Fetal Vasculature Anatomical Location | 946 |
| CID 12200. Echocardiography Left Ventricle | 947 |
| CID 12201. Left Ventricle Linear | 947 |
| CID 12202. Left Ventricle Volume | 947 |
| CID 12203. Left Ventricle Other | 948 |
| CID 12204. Echocardiography Right Ventricle | 948 |
| CID 12205. Echocardiography Left Atrium | 949 |
| CID 12206. Echocardiography Right Atrium | 949 |
| CID 12207. Echocardiography Mitral Valve | 949 |
| CID 12208. Echocardiography Tricuspid Valve | 950 |
| CID 12209. Echocardiography Pulmonic Valve | 950 |
| CID 12210. Echocardiography Pulmonary Artery | 951 |
| CID 12211. Echocardiography Aortic Valve | 951 |
| CID 12212. Echocardiography Aorta | 951 |
| CID 12214. Echocardiography Pulmonary Veins | 952 |
| CID 12215. Echocardiography Vena Cavae | 952 |

| | |
|---|-----|
| CID 12216. Echocardiography Hepatic Veins | 952 |
| CID 12217. Echocardiography Cardiac Shunt | 953 |
| CID 12218. Echocardiography Congenital | 953 |
| CID 12219. Pulmonary Vein Modifiers | 953 |
| CID 12220. Echocardiography Common Measurements | 953 |
| CID 12221. Flow Direction | 954 |
| CID 12222. Orifice Flow Properties | 954 |
| CID 12223. Echocardiography Stroke Volume Origin | 955 |
| CID 12224. Ultrasound Image Modes | 955 |
| CID 12226. Echocardiography Image View | 956 |
| CID 12227. Echocardiography Measurement Method | 957 |
| CID 12228. Echocardiography Volume Methods | 957 |
| CID 12229. Echocardiography Area Methods | 957 |
| CID 12230. Gradient Methods | 958 |
| CID 12231. Volume Flow Methods | 958 |
| CID 12232. Myocardium Mass Methods | 958 |
| CID 12233. Cardiac Phase | 958 |
| CID 12234. Respiration State | 959 |
| CID 12235. Mitral Valve Anatomic Sites | 959 |
| CID 12236. Echo Anatomic Sites | 959 |
| CID 12237. Echocardiography Anatomic Site Modifiers | 960 |
| CID 12238. Wall Motion Scoring Schemes | 960 |
| CID 12239. Cardiac Output Properties | 960 |
| CID 12240. Left Ventricle Area | 961 |
| CID 12241. Tricuspid Valve Finding Sites | 961 |
| CID 12242. Aortic Valve Finding Sites | 961 |
| CID 12243. Left Ventricle Finding Sites | 961 |
| CID 12244. Congenital Finding Sites | 961 |
| CID 12245. Cardiac Ultrasound Report Titles | 962 |
| CID 12246. Cardiac Ultrasound Indication for Study | 962 |
| CID 12247. Pediatric, Fetal and Congenital Cardiac Surgical Interventions | 962 |
| CID 12248. Cardiac Ultrasound Summary Codes | 964 |
| CID 12249. Cardiac Ultrasound Fetal Summary Codes | 965 |
| CID 12250. Cardiac Ultrasound Common Linear Measurements | 965 |
| CID 12251. Cardiac Ultrasound Linear Valve Measurements | 965 |
| CID 12252. Cardiac Ultrasound Cardiac Function | 966 |
| CID 12253. Cardiac Ultrasound Area Measurements | 966 |
| CID 12254. Cardiac Ultrasound Hemodynamic Measurements | 966 |
| CID 12255. Cardiac Ultrasound Myocardium Measurements | 967 |
| CID 12257. Cardiac Ultrasound Left Ventricle | 967 |
| CID 12258. Cardiac Ultrasound Right Ventricle | 968 |
| CID 12259. Cardiac Ultrasound Ventricles Measurements | 968 |
| CID 12260. Cardiac Ultrasound Pulmonary Artery | 968 |
| CID 12261. Cardiac Ultrasound Pulmonary Vein | 969 |
| CID 12262. Cardiac Ultrasound Pulmonary Valve | 969 |
| CID 12263. Cardiac Ultrasound Venous Return Pulmonary Measurements | 969 |
| CID 12264. Cardiac Ultrasound Venous Return Systemic Measurements | 970 |
| CID 12265. Cardiac Ultrasound Atria and Atrial Septum Measurements | 970 |
| CID 12266. Cardiac Ultrasound Mitral Valve | 970 |
| CID 12267. Cardiac Ultrasound Tricuspid Valve | 971 |
| CID 12268. Cardiac Ultrasound Atrioventricular Valves Measurements | 971 |
| CID 12269. Cardiac Ultrasound Interventricular Septum Measurements | 971 |
| CID 12270. Cardiac Ultrasound Aortic Valve | 972 |
| CID 12271. Cardiac Ultrasound Outflow Tracts Measurements | 972 |
| CID 12272. Cardiac Ultrasound Semilunar Valves, Annulate and Sinuses Measurements | 972 |
| CID 12273. Cardiac Ultrasound Aortic Sinotubular Junction | 973 |
| CID 12274. Cardiac Ultrasound Aorta Measurements | 973 |
| CID 12275. Cardiac Ultrasound Coronary Arteries Measurements | 973 |
| CID 12276. Cardiac Ultrasound Aorto Pulmonary Connections Measurements | 973 |
| CID 12277. Cardiac Ultrasound Pericardium and Pleura Measurements | 974 |

| | |
|--|------|
| CID 12279. Cardiac Ultrasound Fetal General Measurements | 974 |
| CID 12280. Cardiac Ultrasound Target Sites | 975 |
| CID 12281. Cardiac Ultrasound Target Site Modifiers | 975 |
| CID 12282. Cardiac Ultrasound Venous Return Systemic Finding Sites | 976 |
| CID 12283. Cardiac Ultrasound Venous Return Pulmonary Finding Sites | 976 |
| CID 12284. Cardiac Ultrasound Atria and Atrial Septum Finding Sites | 977 |
| CID 12285. Cardiac Ultrasound Atrioventricular Valves Finding Sites | 977 |
| CID 12286. Cardiac Ultrasound Interventricular Septum Finding Sites | 977 |
| CID 12287. Cardiac Ultrasound Ventricles Finding Sites | 978 |
| CID 12288. Cardiac Ultrasound Outflow Tracts Finding Sites | 978 |
| CID 12289. Cardiac Ultrasound Semilunar Valves, Annulus and Sinuses Finding Sites | 978 |
| CID 12290. Cardiac Ultrasound Pulmonary Arteries Finding Sites | 979 |
| CID 12291. Cardiac Ultrasound Aorta Finding Sites | 979 |
| CID 12292. Cardiac Ultrasound Coronary Arteries Finding Sites | 979 |
| CID 12293. Cardiac Ultrasound Aortopulmonary Connections Finding Sites | 980 |
| CID 12294. Cardiac Ultrasound Pericardium and Pleura Finding Sites | 980 |
| CID 12300. Core Echo Measurements | 980 |
| CID 12301. Measurement Selection Reasons | 988 |
| CID 12302. Echo Finding Observation Types | 988 |
| CID 12303. Echo Measurement Types | 988 |
| CID 12304. Echo Measured Properties | 989 |
| CID 12305. Basic Echo Anatomic Sites | 990 |
| CID 12306. Echo Flow Directions | 992 |
| CID 12307. Cardiac Phases and Time Points | 992 |
| C. Acquisition Context Module, Protocol and Workflow Context Templates (Normative) | 993 |
| Templates for Acquisition, Protocol and Workflow Context. | 993 |
| TID 3401. ECG Acquisition Context | 993 |
| TID 3403. Catheterization Acquisition Context | 993 |
| TID 3450. Cardiac Electrophysiology Acquisition Context | 994 |
| TID 3460. Projection Radiography Acquisition Context | 994 |
| TID 3470. NM/PET Acquisition Context | 994 |
| TID 3471. PET Covariates Acquisition Context | 994 |
| TID 8001. Specimen Preparation | 995 |
| TID 8002. Specimen Sampling | 996 |
| TID 8003. Specimen Staining | 997 |
| TID 8004. Specimen Localization | 997 |
| TID 8010. Slide Imaging Parameters | 998 |
| TID 8200. Radiology Reading Task Parameters | 998 |
| TID 15100. Contrast Agent/Pre-Medication Protocol Context | 999 |
| TID 15101. NM/PET Protocol Context | 999 |
| TID 15200. JJ1017 Protocol Context | 1000 |
| D. DICOM Controlled Terminology Definitions (Normative) | 1001 |
| E. French Language Meanings of Selected Codes Used in the DCMR (Normative) | 1165 |
| F. Japanese Language Meanings of Selected Codes Used in The DCMR (Normative) | 1197 |
| G. English Code Meanings of Selected Codes (Normative) | 1209 |
| H. Code Meanings of LOINC Codes in DCMR | 1217 |
| I. Relationship of Endoscopy Procedures to Anatomic Regions (Informative) | 1227 |
| J. SNOMED Retired Codes | 1229 |
| K. Relevant Patient Information Templates (Normative) | 1245 |
| L. Correspondence of Anatomic Region Codes and Body Part Examined Defined Terms | 1247 |
| M. German Language Meanings of Selected Codes Used in The DCMR (Normative) | 1263 |
| N. Externally Defined Value Sets (Informative) | 1265 |
| N.1. HL7 Value Sets | 1265 |
| N.1.1. ActPriority Value Set | 1265 |
| N.1.2. AdministrativeGender Value Set | 1266 |
| N.1.3. ImageMediaType Value Set | 1266 |
| N.1.4. NullFlavor Value Set | 1266 |
| N.1.5. ObservationInterpretation Value Set | 1266 |
| N.1.6. x_BasicConfidentialityKind Value Set | 1267 |
| N.1.7. x_serviceEventPerformer Value Set | 1267 |

| | |
|--|------|
| N.2. LOINC Value Sets | 1267 |
| N.2.1. LOINC Imaging Document Codes (examples) | 1268 |
| N.2.2. LOINC Y/N/NA | 1268 |

List of Figures

| | |
|---|-----|
| A-3. Quantitative Ventricular Analysis Report SR IOD Template Structure | 162 |
| A-4. Quantitative Arterial Analysis Report SR IOD Template Structure | 173 |
| A-4b. Direction of Blood Flow | 176 |
| A-5. IVUS Report Template Hierarchy | 184 |
| A-6. Hemodynamic Report Template Hierarchy | 204 |
| A-7. Cardiac Catheterization Report Template Hierarchy | 230 |
| A-8. Mammography CAD SR IOD Template Structure | 277 |
| A-8a. Example of Breast Outline Including Pectoral Muscle Tissue | 290 |
| A-8b. Example of Pectoral Muscle Outline | 290 |
| A-9. Chest CAD SR IOD Template Structure | 303 |
| A-9b. Colon CAD SR IOD Template Structure | 313 |
| A-10. Breast Imaging Report Template Structure | 323 |
| A-10b. Simplified Adult Echocardiography Template Structure | 367 |
| A-11. Implantation Plan SR Document IOD Template Structure | 376 |
| A-12. Implant Assembly and Components Terminology | 377 |
| A-13. References to Registration Objects | 381 |
| A-14. X-Ray Radiation Dose SR IOD Template Structure | 405 |
| A-15. CT Radiation Dose SR IOD Template Structure | 419 |
| A-16. Spiral Acquisition Parameters | 430 |
| A-17. Radiopharmaceutical Radiation Dose SR IOD Template Structure | 432 |
| A-18. Patient Radiation Dose Structured Report IOD Template Structure | 438 |

List of Tables

| | |
|--|-----|
| TID <#>. <SR Context Template Name> | 76 |
| TID <#>. <Acquisition Context Template Name> | 76 |
| TID <#>. <Protocol Context Template Name> | 76 |
| 6.1.3-1. Syntax of Relationship Constraints | 78 |
| 6.1.6-1. Permitted Values for VM | 78 |
| CID <#>. <Context Group Name> | 83 |
| 7.2.1-1. Include Context Group Macro | 84 |
| 8-1. Coding Schemes | 87 |
| 8-2. HL7v3 Coding Schemes | 90 |
| TID 300. Parameters | 93 |
| TID 300. Measurement | 93 |
| TID 310. Parameters | 95 |
| TID 310. Measurement Properties | 95 |
| TID 311. Parameters | 96 |
| TID 311. Measurement Statistical Properties | 96 |
| TID 312. Parameters | 96 |
| TID 312. Normal Range Properties | 96 |
| TID 315. Parameters | 96 |
| TID 315. Equation or Table | 97 |
| TID 320. Parameters | 97 |
| TID 320. Image or Spatial Coordinates | 97 |
| TID 321. Parameters | 98 |
| TID 321. Waveform or Temporal Coordinates | 98 |
| TID 350. References to Supporting Evidence | 98 |
| TID 351. Previous Reports | 99 |
| TID 1000. Quotation | 99 |
| TID 1001. Observation Context | 100 |
| TID 1002. Observer Context | 101 |
| TID 1003. Person Observer Identifying Attributes | 101 |
| TID 1004. Device Observer Identifying Attributes | 102 |
| TID 1005. Procedure Context | 103 |
| TID 1006. Subject Context | 104 |
| TID 1007. Subject Context, Patient | 104 |
| TID 1008. Subject Context, Fetus | 105 |
| TID 1009. Subject Context, Specimen | 106 |
| TID 1010. Subject Context, Device | 106 |
| TID 1020. Parameters | 107 |
| TID 1020. Person Participant | 107 |
| TID 1021. Parameters | 107 |
| TID 1021. Device Participant | 108 |
| TID 1200. Language Designation | 108 |
| TID 1201. Language of Value | 109 |
| TID 1202. Language of Name and Value | 109 |
| TID 1204. Language of Content Item and Descendants | 109 |
| TID 1210. Equivalent Meaning(s) of Concept Name | 110 |
| TID 1211. Equivalent Meaning(s) of Value | 111 |
| TID 1350. Negation Modifier, Presence of Finding | 112 |
| TID 1400. Linear Measurement | 112 |
| TID 1401. Area Measurement | 113 |
| TID 1402. Volume Measurement | 114 |
| TID 1404. Numeric Measurement | 115 |
| TID 1406. Three Dimensional Linear Measurement | 115 |
| TID 1410. Parameters | 116 |
| TID 1410. Planar ROI Measurements | 116 |
| TID 1411. Parameters | 118 |
| TID 1411. Volumetric ROI Measurements | 119 |
| TID 1419. Parameters | 121 |

| | |
|---|-----|
| TID 1419. ROI Measurements | 122 |
| TID 1420. Parameters | 123 |
| TID 1420. Measurements Derived From Multiple ROI Measurements | 124 |
| TID 1500. Measurement Report | 126 |
| TID 1501. Parameters | 128 |
| TID 1501. Measurement Group | 128 |
| TID 1502. Time Point Context | 130 |
| TID 1600. Image Library | 131 |
| TID 1601. Image Library Entry | 131 |
| TID 1602. Image Library Entry Descriptors | 132 |
| TID 1603. Image Library Entry Descriptors for Projection Radiography | 133 |
| TID 1604. Image Library Entry Descriptors for Cross-Sectional Modalities | 133 |
| TID 1605. Image Library Entry Descriptors for CT | 134 |
| TID 1606. Image Library Entry Descriptors for MR | 135 |
| TID 1607. Image Library Entry Descriptors for PET | 135 |
| TID 2000. Basic Diagnostic Imaging Report | 137 |
| TID 2001. Basic Diagnostic Imaging Report Observations | 138 |
| TID 2002. Report Narrative | 138 |
| TID 2005. Transcribed Diagnostic Imaging Report | 139 |
| TID 2006. Imaging Report With Conditional Radiation Exposure and Protection Information | 140 |
| TID 2007. Imaging Procedure Description | 141 |
| TID 2008. Radiation Exposure and Protection Information | 142 |
| TID 2010. Key Object Selection | 144 |
| TID 2020. Spectacle Prescription Report | 144 |
| TID 2021. Spectacle Prescription Details | 145 |
| TID 2100. Macular Grid Thickness and Volume Report | 146 |
| TID 2101. Parameters | 146 |
| TID 2101. Macular Grid Thickness and Volume Measurement | 146 |
| TID 2102. Quality Rating Identification | 148 |
| TID 3001. Procedure Log | 149 |
| TID 3010. Log Entry Qualifiers | 150 |
| TID 3100. Procedure Action | 151 |
| TID 3101. Image Acquisition | 152 |
| TID 3102. Waveform Acquisition | 152 |
| TID 3103. Referenced Object | 153 |
| TID 3104. Consumables | 153 |
| TID 3105. Lesion Identification and Properties | 154 |
| TID 3106. Drugs/Contrast Administered | 155 |
| TID 3107. Device Used | 156 |
| TID 3108. Intervention | 156 |
| TID 3109. Measurements | 157 |
| TID 3110. Impressions or Findings | 157 |
| TID 3111. Percutaneous Entry | 158 |
| TID 3112. Specimen Obtained | 158 |
| TID 3113. Patient Support | 159 |
| TID 3114. Patient Assessment | 160 |
| TID 3115. ECG ST Assessment | 161 |
| TID 3202. Ventricular Analysis | 162 |
| TID 3205. Parameters | 163 |
| TID 3205. Calibration | 164 |
| TID 3206. VA Main Results | 165 |
| TID 3207. AA Main Results | 168 |
| TID 3208. Frame-To-Frame Result | 169 |
| TID 3209. Centerline Wall Motion | 170 |
| TID 3210. Radial Based Wall Motion | 172 |
| TID 3211. Landmark Based Wall Motion | 172 |
| TID 3213. Quantitative Arterial Analysis | 174 |
| TID 3214. Analyzed Segment | 174 |
| TID 3215. Angiographic Lesion Analysis | 176 |
| TID 3216. Stenotic Flow Reserve | 180 |

| | |
|--|-----|
| TID 3217. Sub-Segmental Data | 181 |
| TID 3218. Position in Arterial Segment | 182 |
| TID 3219. Segment Values | 183 |
| TID 3250. IVUS Report | 184 |
| TID 3251. IVUS Vessel | 185 |
| TID 3252. IVUS Lesion | 185 |
| TID 3253. IVUS Measurements | 186 |
| TID 3254. IVUS Qualitative Assessments | 187 |
| TID 3255. IVUS Volume Measurement | 188 |
| TID 3300. Stress Testing Report | 189 |
| TID 3301. Stress Test Procedure Description | 190 |
| TID 3303. Stress Test Phase Data | 191 |
| TID 3304. Stress Test Measurement Group | 192 |
| TID 3307. NM/PET Perfusion Measurement Group | 194 |
| TID 3309. Stress Echo Measurement Group | 196 |
| TID 3311. Stress Test Summary | 197 |
| TID 3312. Physiological Summary | 198 |
| TID 3313. Stress ECG Summary | 199 |
| TID 3317. Stress Imaging Summary | 201 |
| TID 3318. Comparison to Prior Stress Exam | 202 |
| TID 3320. Conclusions and Recommendations | 203 |
| TID 3500. Hemodynamics Report | 205 |
| TID 3501. Hemodynamics Measurement Group | 205 |
| TID 3504. Arterial Pressure Measurement | 206 |
| TID 3505. Atrial Pressure Measurement | 207 |
| TID 3506. Venous Pressure Measurement | 208 |
| TID 3507. Ventricular Pressure Measurement | 208 |
| TID 3508. Gradient Measurement | 209 |
| TID 3509. Blood Velocity Measurement | 210 |
| TID 3510. Vital Signs | 211 |
| TID 3515. Cardiac Output Measurement By Indicator Dilution | 212 |
| TID 3516. Blood Lab Measurements | 213 |
| TID 3520. Hemodynamic Clinical Context | 214 |
| TID 3521. Parameters | 215 |
| TID 3521. Relative Time | 216 |
| TID 3530. Parameters | 216 |
| TID 3530. Hemodynamic Acquisition Context | 216 |
| TID 3550. Pressure Waveform Measurements | 217 |
| TID 3560. Derived Hemodynamic Measurements | 218 |
| TID 3570. Summary, Hemodynamics | 221 |
| TID 3601. Procedure Context | 222 |
| TID 3602. Cardiovascular Patient Characteristics | 222 |
| TID 3603. Procedure Environmental Characteristics | 224 |
| TID 3700. ECG Report | 224 |
| TID 3702. Prior ECG Exam | 225 |
| TID 3704. Patient Characteristics for ECG | 225 |
| TID 3708. ECG Waveform Information | 226 |
| TID 3713. ECG Global Measurements | 227 |
| TID 3714. ECG Lead Measurements | 228 |
| TID 3715. ECG Measurement Source | 228 |
| TID 3717. Qualitative Analysis, ECG | 229 |
| TID 3719. Summary, ECG | 230 |
| TID 3800. Cardiac Catheterization Report Root | 231 |
| TID 3802. Cardiovascular Patient History | 232 |
| TID 3803. Patient Presentation, Cath | 234 |
| TID 3806. Cath Procedure | 235 |
| TID 3807. Percutaneous Coronary Intervention Procedure | 237 |
| TID 3808. Lesion Intervention Information | 238 |
| TID 3809. Other Interventional Procedures | 239 |
| TID 3810. Cardiac Catheterization Findings | 240 |

| | |
|--|-----|
| TID 3812. Hemodynamic Findings | 240 |
| TID 3814. Left Ventriculography Findings | 241 |
| TID 3815. Right Ventriculography Findings | 242 |
| TID 3816. Ventricular Assessment | 243 |
| TID 3817. Coronary Arteriography Findings | 243 |
| TID 3818. Other Cardiographic Findings | 244 |
| TID 3819. Parameters | 244 |
| TID 3819. Common Findings | 245 |
| TID 3820. Adverse Outcomes, Cath | 245 |
| TID 3824. Summary, Cath | 246 |
| TID 3828. Discharge Summary, Cath | 246 |
| TID 3829. Parameters | 247 |
| TID 3829. Problem Properties | 247 |
| TID 3830. Parameters | 248 |
| TID 3830. Procedure Properties | 248 |
| TID 3831. Parameters | 249 |
| TID 3831. Medical Device Use | 249 |
| TID 3900. CT/MR Cardiovascular Analysis Report | 249 |
| TID 3901. Procedure Summary | 250 |
| TID 3902. Parameters | 251 |
| TID 3902. Vascular Analysis | 251 |
| TID 3905. Calcium Scoring Results | 256 |
| TID 3906. Parameters | 256 |
| TID 3906. Vascular Section Measurements | 257 |
| TID 3907. Vessel Measurements | 258 |
| TID 3908. Vascular Lesion | 259 |
| TID 3909. Best Illustration of Findings | 260 |
| TID 3910. Flow Quantification | 261 |
| TID 3911. Plaque Properties | 263 |
| TID 3912. Stenosis Properties | 263 |
| TID 3913. Aneurysm Properties | 265 |
| TID 3914. Arterial Dissection Properties | 265 |
| TID 3915. Vascular Occlusion Properties | 265 |
| TID 3916. Stent Properties | 266 |
| TID 3917. Aneurysm Measurements | 267 |
| TID 3920. Ventricular Analysis | 267 |
| TID 3921. Parameters | 268 |
| TID 3921. Ventricular Measurements | 268 |
| TID 3922. Absolute Values of Ventricular Measurements | 268 |
| TID 3923. BSA-Normalized Ventricular Measurements | 270 |
| TID 3924. Heart Rate-Normalized Ventricular Measurements | 271 |
| TID 3925. Thickening Analysis | 272 |
| TID 3926. Myocardial Perfusion Analysis | 274 |
| TID 3927. Report Summary | 275 |
| TID 3929. Cardiovascular Analysis Observation Context | 276 |
| TID 3990. Parameters | 276 |
| TID 3990. Two Dimensional Measurement Graph | 276 |
| TID 4000. Mammography CAD Document Root | 278 |
| TID 4001. Mammography CAD Overall Impression/Recommendation | 279 |
| TID 4002. Mammography CAD Impression/Recommendation Body | 280 |
| TID 4003. Mammography CAD Individual Impression/Recommendation | 282 |
| TID 4004. Mammography CAD Composite Feature | 282 |
| TID 4005. Mammography CAD Composite Feature Body | 283 |
| TID 4006. Mammography CAD Single Image Finding | 286 |
| TID 4007. Mammography CAD Breast Composition | 289 |
| TID 4008. Mammography CAD Breast Geometry | 289 |
| TID 4009. Mammography CAD Individual Calcification | 290 |
| TID 4010. Mammography CAD Calcification Cluster | 291 |
| TID 4011. Mammography CAD Density | 291 |
| TID 4012. Mammography CAD Non-lesion | 292 |

| | |
|--|-----|
| TID 4013. Mammography CAD Selected Region | 293 |
| TID 4014. Parameters | 293 |
| TID 4014. CAD Image Quality | 293 |
| TID 4015. Parameters | 294 |
| TID 4015. CAD Detections Performed | 294 |
| TID 4016. Parameters | 294 |
| TID 4016. CAD Analyses Performed | 295 |
| TID 4017. Parameters | 295 |
| TID 4017. CAD Detection Performed | 295 |
| TID 4018. Parameters | 296 |
| TID 4018. CAD Analysis Performed | 296 |
| TID 4019. CAD Algorithm Identification | 298 |
| TID 4020. Parameters | 298 |
| TID 4020. CAD Image Library Entry | 298 |
| TID 4021. Mammography CAD Geometry | 301 |
| TID 4022. CAD Observation Context | 301 |
| TID 4023. CAD Operating Points | 302 |
| TID 4100. Chest CAD Document Root | 304 |
| TID 4101. Chest CAD Findings Summary | 305 |
| TID 4102. Chest CAD Composite Feature | 305 |
| TID 4103. Chest CAD Composite Feature Body | 307 |
| TID 4104. Chest CAD Single Image Finding | 308 |
| TID 4105. Chest CAD Descriptors | 311 |
| TID 4106. Response Evaluation | 312 |
| TID 4107. Chest CAD Geometry | 312 |
| TID 4108. Tracking Identifier | 313 |
| TID 4120. Colon CAD Document Root | 314 |
| TID 4121. Colon CAD Findings Summary | 315 |
| TID 4122. CAD Common Image Properties Entry | 315 |
| TID 4125. Colon CAD Composite Feature | 317 |
| TID 4126. Colon CAD Composite Feature Body | 318 |
| TID 4127. Colon CAD Single Image Finding | 319 |
| TID 4128. Colon CAD Descriptors | 320 |
| TID 4129. Colon CAD Geometry | 321 |
| TID 4200. Breast Imaging Report | 323 |
| TID 4201. Breast Imaging Procedure Reported | 324 |
| TID 4202. Breast Imaging Report Narrative | 325 |
| TID 4203. Breast Imaging Assessment | 325 |
| TID 4204. Breast Imaging Report Intervention Section | 326 |
| TID 4205. Breast Composition Section | 327 |
| TID 4206. Breast Imaging Report Finding Section | 328 |
| TID 4207. Breast Imaging Pathology Results | 329 |
| TID 4208. Breast Imaging Report Supplementary Data | 331 |
| TID 5000. OB-GYN Ultrasound Procedure Report | 332 |
| TID 5001. OB-GYN Patient Characteristics | 333 |
| TID 5002. OB-GYN Procedure Summary Section | 334 |
| TID 5003. OB-GYN Procedure Fetus Summary | 334 |
| TID 5004. Fetal Biometry Ratio Section | 335 |
| TID 5005. Fetal Biometry Section | 335 |
| TID 5006. Fetal Long Bones Section | 336 |
| TID 5007. Fetal Cranium Section | 337 |
| TID 5008. Parameters | 337 |
| TID 5008. Fetal Biometry Group | 337 |
| TID 5009. Fetal Biophysical Profile Section | 338 |
| TID 5010. Amniotic Sac Section | 339 |
| TID 5011. Early Gestation Section | 340 |
| TID 5012. Ovaries Section | 340 |
| TID 5013. Parameters | 341 |
| TID 5013. Follicles Section | 341 |
| TID 5014. Follicle Measurement Group | 342 |

| | |
|--|-----|
| TID 5015. Pelvis and Uterus Section | 342 |
| TID 5016. Parameters | 343 |
| TID 5016. LWH Volume Group | 343 |
| TID 5025. Parameters | 343 |
| TID 5025. OB-GYN Fetal Vascular Ultrasound Measurement Group | 344 |
| TID 5026. Parameters | 344 |
| TID 5026. OB-GYN Pelvic Vascular Ultrasound Measurement Group | 344 |
| TID 5100. Vascular Ultrasound Report | 345 |
| TID 5101. Vascular Patient Characteristics | 349 |
| TID 5102. Vascular Procedure Summary Section | 350 |
| TID 5103. Parameters | 350 |
| TID 5103. Vascular Ultrasound Section | 350 |
| TID 5104. Parameters | 350 |
| TID 5104. Vascular Ultrasound Measurement Group | 351 |
| TID 5105. Ultrasound Graft Section | 351 |
| TID 5200. Echocardiography Procedure Report | 352 |
| TID 5201. Echocardiography Patient Characteristics | 355 |
| TID 5202. Parameters | 355 |
| TID 5202. Echo Section | 355 |
| TID 5203. Parameters | 356 |
| TID 5203. Echo Measurement | 356 |
| TID 5204. Parameters | 357 |
| TID 5204. Wall Motion Analysis | 357 |
| 5204-1. Numeric Score Assignment for Segmental Findings | 358 |
| TID 5220. Pediatric, Fetal and Congenital Cardiac Ultrasound Reports | 359 |
| TID 5221. Cardiac Ultrasound Pediatric Echo Measurement Section | 360 |
| TID 5222. Parameters | 362 |
| TID 5222. Pediatric, Fetal and Congenital Cardiac Ultrasound Section | 362 |
| TID 5223. Parameters | 363 |
| TID 5223. Pediatric, Fetal and Congenital Cardiac Ultrasound Measurement | 363 |
| TID 5225. Cardiac Ultrasound Fetal Characteristics | 364 |
| TID 5226. Cardiac Ultrasound Summary Section | 365 |
| TID 5227. Cardiac Ultrasound Fetal Summary Section | 365 |
| TID 5228. Cardiac Ultrasound Fetal Measurement Section | 365 |
| TID 5300. Simplified Echo Procedure Report | 368 |
| TID 5301. Parameters | 370 |
| TID 5301. Pre-coordinated Echo Measurement | 370 |
| TID 5302. Parameters | 372 |
| TID 5302. Post-coordinated Echo Measurement | 372 |
| TID 5303. Parameters | 376 |
| TID 5303. Adhoc Measurement | 376 |
| TID 7000. Implantation Plan | 377 |
| TID 7001. Related Implantation Reports | 382 |
| TID 8101. Preclinical Small Animal Image Acquisition Context | 383 |
| TID 8110. Biosafety Conditions | 385 |
| TID 8121. Animal Housing | 386 |
| TID 8122. Animal Feeding | 389 |
| TID 8130. Anesthesia | 389 |
| TID 8131. Medications and Mixture Medications | 391 |
| TID 8140. Heating Conditions | 392 |
| TID 8150. Circadian Effects | 393 |
| TID 8170. Physiological Monitoring Performed During Procedure | 394 |
| TID 8182. Parameters | 394 |
| TID 8182. Exogenous Substance Administration | 394 |
| TID 9000. Relevant Patient Information for Breast Imaging | 396 |
| TID 9001. Gynecological History | 398 |
| TID 9002. Parameters | 399 |
| TID 9002. Medication, Substance, Environmental Exposure | 399 |
| TID 9003. Parameters | 400 |
| TID 9003. Previous Procedure | 401 |

| | |
|--|-----|
| TID 9004. Parameters | 401 |
| TID 9004. Indicated Problem | 401 |
| TID 9005. Parameters | 402 |
| TID 9005. Risk Factor | 402 |
| TID 9006. Obstetric History | 403 |
| TID 9007. General Relevant Patient Information | 404 |
| TID 10001. Projection X-Ray Radiation Dose | 405 |
| TID 10002. Parameters | 408 |
| TID 10002. Accumulated X-Ray Dose | 408 |
| TID 10003. Irradiation Event X-Ray Data | 410 |
| TID 10003A. Irradiation Event X-Ray Detector Data | 412 |
| TID 10003B. Irradiation Event X-Ray Source Data | 413 |
| TID 10003C. Irradiation Event X-Ray Mechanical Data | 415 |
| TID 10004. Accumulated Fluoroscopy and Acquisition Projection X-Ray Dose | 416 |
| TID 10005. Accumulated Mammography X-Ray Dose | 417 |
| TID 10006. Accumulated Cassette-Based Projection Radiography Dose | 417 |
| TID 10007. Accumulated Total Projection Radiography Dose | 418 |
| TID 10011. CT Radiation Dose | 419 |
| TID 10012. CT Accumulated Dose Data | 420 |
| TID 10013. CT Irradiation Event Data | 422 |
| TID 10014. Scanning Length | 428 |
| TID 10015. CT Dose Check Details | 430 |
| TID 10021. Radiopharmaceutical Radiation Dose | 433 |
| TID 10022. Radiopharmaceutical Administration Event Data | 433 |
| TID 10023. Organ Dose | 436 |
| TID 10024. Radiopharmaceutical Administration Patient Characteristics | 437 |
| TID 10030. Patient Radiation Dose | 439 |
| TID 10031. Radiation Dose Estimate | 439 |
| TID 10032. Radiation Dose Estimate Representation | 440 |
| TID 10033. Radiation Dose Estimate Methodology | 441 |
| TID 10034. Radiation Dose Estimate Parameters | 445 |
| CID 2. Anatomic Modifier | 447 |
| CID 4. Anatomic Region | 448 |
| CID 5. Transducer Approach | 451 |
| CID 6. Transducer Orientation | 452 |
| CID 7. Ultrasound Beam Path | 452 |
| CID 8. Angiographic Interventional Devices | 453 |
| CID 9. Image Guided Therapeutic Procedures | 453 |
| CID 10. Interventional Drug | 454 |
| CID 11. Route of Administration | 456 |
| CID 12. Radiographic Contrast Agent | 457 |
| CID 13. Radiographic Contrast Agent Ingredient | 459 |
| CID 18. Isotopes in Radiopharmaceuticals | 459 |
| CID 19. Patient Orientation | 460 |
| CID 20. Patient Orientation Modifier | 461 |
| CID 21. Patient Equipment Relationship | 462 |
| CID 23. Cranio-Caudal Angulation | 462 |
| CID 25. Radiopharmaceuticals | 463 |
| CID 26. Nuclear Medicine Projections | 466 |
| CID 27. Basic Cardiac Views | 467 |
| CID 29. Acquisition Modality | 467 |
| CID 30. DICOM Devices | 468 |
| CID 31. Abstract Priors | 469 |
| CID 42. Numeric Value Qualifier | 469 |
| CID 50. Instance Availability Status | 470 |
| CID 83. Units for Real World Value Mapping | 470 |
| CID 84. PET Units | 470 |
| CID 85. SUV Units | 471 |
| CID 91. Functional Condition Present During Acquisition | 472 |
| CID 92. Joint Position During Acquisition | 472 |

| | |
|--|-----|
| CID 93. Joint Positioning Method | 472 |
| CID 94. Physical Force Applied During Acquisition | 473 |
| CID 100. Quantitative Diagnostic Imaging Procedures | 473 |
| CID 220. Level of Significance | 473 |
| CID 221. Measurement Range Concepts | 474 |
| CID 222. Normality Codes | 474 |
| CID 223. Normal Range Values | 474 |
| CID 224. Selection Method | 474 |
| CID 225. Measurement Uncertainty Concepts | 475 |
| CID 226. Population Statistical Descriptors | 475 |
| CID 227. Sample Statistical Descriptors | 475 |
| CID 228. Equation or Table | 476 |
| CID 230. Yes-No | 476 |
| CID 231. Yes-No Only | 476 |
| CID 240. Present-Absent | 476 |
| CID 241. Present-Absent Only | 477 |
| CID 242. Normal-Abnormal | 477 |
| CID 244. Laterality | 477 |
| CID 250. Positive-Negative | 477 |
| CID 251. Severity of Complication | 478 |
| CID 252. S-M-L Size Descriptor | 478 |
| CID 270. Observer Type | 478 |
| CID 271. Observation Subject Class | 478 |
| CID 400. Audit Event ID | 479 |
| CID 401. Audit Event Type Code | 479 |
| CID 402. Audit Active Participant Role ID Code | 480 |
| CID 403. Security Alert Type Code | 480 |
| CID 404. Audit Participant Object ID Type Code | 481 |
| CID 405. Media Type Code | 481 |
| CID 501. Volumetric View Description | 481 |
| CID 502. Volumetric View Modifier | 482 |
| CID 601. Biosafety Levels | 482 |
| CID 602. Biosafety Control Reasons | 482 |
| CID 603. Animal Room Types | 483 |
| CID 604. Device Reuse | 483 |
| CID 605. Animal Bedding Material | 483 |
| CID 606. Animal Shelter Types | 484 |
| CID 607. Animal Feed Types | 484 |
| CID 608. Animal Feed Sources | 484 |
| CID 609. Animal Feeding Methods | 485 |
| CID 610. Water Types | 485 |
| CID 611. Anesthesia Category Code Type for Small Animal Anesthesia | 485 |
| CID 612. Anesthesia Category Code Type from Anesthesia Quality Initiative (AQI) | 485 |
| CID 613. Anesthesia Induction Code Type for Small Animal Anesthesia | 486 |
| CID 614. Anesthesia Induction Code Type from Anesthesia Quality Initiative (AQI) | 486 |
| CID 615. Anesthesia Maintenance Code Type for Small Animal Anesthesia | 487 |
| CID 616. Anesthesia Maintenance Code Type from Anesthesia Quality Initiative (AQI) | 487 |
| CID 617. Airway Management Method Code Type for Small Animal Anesthesia | 487 |
| CID 618. Airway Management Method Code Type from Anesthesia Quality Initiative (AQI) | 487 |
| CID 619. Airway Management Sub-Method Code Type for Small Animal Anesthesia | 488 |
| CID 620. Airway Management Sub-Method Code Type from Anesthesia Quality Initiative (AQI) | 488 |
| CID 621. Medication Type Code Type for Small Animal Anesthesia | 489 |
| CID 622. Medication Type Code Type from Anesthesia Quality Initiative (AQI) | 489 |
| CID 623. Medication for Small Animal Anesthesia | 491 |
| CID 624. Inhalational Anesthesia Agents for Small Animal Anesthesia | 491 |
| CID 625. Injectable Anesthesia Agents for Small Animal Anesthesia | 492 |
| CID 626. Premedication Agents for Small Animal Anesthesia | 493 |
| CID 627. Neuromuscular Blocking Agents for Small Animal Anesthesia | 493 |
| CID 628. Ancillary Medications for Small Animal Anesthesia | 493 |
| CID 629. Carrier Gases for Small Animal Anesthesia | 493 |

| | |
|---|-----|
| CID 630. Local Anesthetics for Small Animal Anesthesia | 494 |
| CID 631. Phase of Procedure Requiring Anesthesia | 494 |
| CID 632. Phase of Surgical Procedure Requiring Anesthesia | 494 |
| CID 633. Phase of Imaging Procedure Requiring Anesthesia | 495 |
| CID 634. Phase of Animal Handling | 495 |
| CID 635. Heating Method | 495 |
| CID 636. Temperature Sensor Device Component Type for Small Animal Procedures | 496 |
| CID 637. Exogenous Substance Types | 496 |
| CID 638. Exogenous Substance | 497 |
| CID 639. Tumor Graft Histologic Type | 497 |
| CID 640. Fibrils | 498 |
| CID 641. Viruses | 498 |
| CID 642. Cytokines | 498 |
| CID 643. Toxins | 498 |
| CID 644. Exogenous Substance Administration Sites | 499 |
| CID 645. Exogenous Substance Tissue of Origin | 499 |
| CID 646. Preclinical Small Animal Imaging Procedures | 500 |
| CID 647. Position Reference Indicator for Frame of Reference | 500 |
| CID 701. Content Assessment Types | 501 |
| CID 702. RT Content Assessment Types | 501 |
| CID 703. Basis of Assessment | 501 |
| CID 1000. CT Transverse Plane Reference Basis | 501 |
| CID 1001. Anatomical Reference Basis | 502 |
| CID 1002. Anatomical Reference Basis - Head | 502 |
| CID 1003. Anatomical Reference Basis - Spine | 503 |
| CID 1004. Anatomical Reference Basis - Chest | 503 |
| CID 1005. Anatomical Reference Basis - Abdomen/Pelvis | 504 |
| CID 1006. Anatomical Reference Basis - Extremities | 505 |
| CID 1010. Reference Geometry - Planes | 505 |
| CID 1011. Reference Geometry - Points | 506 |
| CID 1015. Patient Alignment Methods | 506 |
| CID 1200. Contraindications For CT Imaging | 506 |
| CID 3000. Audio Channel Source | 506 |
| CID 3001. ECG Leads | 507 |
| CID 3003. Hemodynamic Waveform Sources | 510 |
| CID 3004. Arterial Pulse Waveform | 511 |
| CID 3005. Respiration Waveform | 511 |
| CID 3010. Cardiovascular Anatomic Locations | 511 |
| CID 3011. Electrophysiology Anatomic Locations | 514 |
| CID 3014. Coronary Artery Segments | 516 |
| CID 3015. Coronary Arteries | 517 |
| CID 3016. Major Coronary Arteries | 518 |
| CID 3019. Cardiovascular Anatomic Location Modifiers | 518 |
| CID 3083. Units of Radioactivity | 519 |
| CID 3090. Time Synchronization Channel Types | 519 |
| CID 3101. Cardiac Procedural State Values | 519 |
| CID 3102. Rest-Stress | 519 |
| CID 3104. Cardiac Synchronization Technique | 520 |
| CID 3106. PET Cardiology Protocols | 520 |
| CID 3107. PET Cardiology Radiopharmaceuticals | 520 |
| CID 3108. NM/PET Procedures | 520 |
| CID 3110. Nuclear Cardiology Protocols | 521 |
| CID 3111. Nuclear Cardiology Radiopharmaceuticals | 521 |
| CID 3112. Attenuation Correction | 522 |
| CID 3113. Types of Perfusion Defects | 522 |
| CID 3114. Study Quality | 522 |
| CID 3115. Stress Imaging Quality Issues | 523 |
| CID 3116. NM Extracardiac Findings | 523 |
| CID 3117. Attenuation Correction Methods | 523 |
| CID 3118. Level of Risk | 523 |

| | |
|--|-----|
| CID 3119. LV Function | 524 |
| CID 3120. Perfusion Findings | 524 |
| CID 3121. Perfusion Morphology | 524 |
| CID 3122. Ventricular Enlargement | 524 |
| CID 3200. Stress Test Procedure | 525 |
| CID 3201. Indications for Stress Test | 525 |
| CID 3202. Chest Pain | 526 |
| CID 3203. Exerciser Device | 526 |
| CID 3204. Stress Agents | 526 |
| CID 3205. Indications for Pharmacological Stress Test | 526 |
| CID 3206. Non-invasive Cardiac Imaging Procedures | 527 |
| CID 3207. Stress Test Procedure Phases | 527 |
| CID 3208. Summary Codes Exercise ECG | 528 |
| CID 3209. Summary Codes Stress Imaging | 528 |
| CID 3210. Speed of Response | 528 |
| CID 3211. BP Response | 529 |
| CID 3212. Treadmill Speed | 529 |
| CID 3213. Stress Hemodynamic Findings | 529 |
| CID 3215. Perfusion Finding Method | 529 |
| CID 3217. Comparison Finding | 529 |
| CID 3220. Stress Symptoms | 530 |
| CID 3221. Stress Test Termination Reasons | 530 |
| CID 3227. QTc Measurements | 531 |
| CID 3228. ECG Timing Measurements | 531 |
| CID 3229. ECG Axis Measurements | 532 |
| CID 3230. ECG Findings | 532 |
| CID 3231. ST Segment Findings | 533 |
| CID 3232. ST Segment Location | 534 |
| CID 3233. ST Segment Morphology | 534 |
| CID 3234. Ectopic Beat Morphology | 534 |
| CID 3235. Perfusion Comparison Findings | 535 |
| CID 3236. Tolerance Comparison Findings | 535 |
| CID 3237. Wall Motion Comparison Findings | 535 |
| CID 3238. Stress Scoring Scales | 535 |
| CID 3239. Perceived Exertion Scales | 536 |
| CID 3240. Electrophysiology Measurement Functions and Techniques | 536 |
| CID 3241. Hemodynamic Measurement Techniques | 536 |
| CID 3250. Catheterization Procedure Phase | 537 |
| CID 3254. Electrophysiology Procedure Phase | 538 |
| CID 3261. Stress Protocols | 538 |
| CID 3262. ECG Patient State Values | 539 |
| CID 3263. Electrode Placement Values | 539 |
| CID 3271. Hemodynamic Physiological Challenges | 540 |
| CID 3335. ECG Annotations | 541 |
| CID 3337. Hemodynamic Annotations | 544 |
| CID 3339. Electrophysiology Annotations | 545 |
| CID 3400. Procedure Log Titles | 545 |
| CID 3401. Types of Log Notes | 545 |
| CID 3402. Patient Status and Events | 546 |
| CID 3403. Percutaneous Entry | 547 |
| CID 3404. Staff Actions | 547 |
| CID 3405. Procedure Action Values | 547 |
| CID 3406. Non-coronary Transcatheter Interventions | 548 |
| CID 3407. Purpose of Reference to Object | 548 |
| CID 3408. Actions With Consumables | 548 |
| CID 3409. Administration of Drugs/Contrast | 549 |
| CID 3410. Numeric Parameters of Drugs/Contrast | 549 |
| CID 3411. Intracoronary Devices | 549 |
| CID 3412. Intervention Actions and Status | 550 |
| CID 3413. Adverse Outcomes | 551 |

| | |
|---|-----|
| CID 3414. Procedure Urgency | 551 |
| CID 3415. Cardiac Rhythms | 551 |
| CID 3416. Respiration Rhythms | 553 |
| CID 3418. Lesion Risk | 554 |
| CID 3419. Findings Titles | 554 |
| CID 3421. Procedure Action | 554 |
| CID 3422. Device Use Actions | 554 |
| CID 3423. Numeric Device Characteristics | 555 |
| CID 3425. Intervention Parameters | 555 |
| CID 3426. Consumables Parameters | 555 |
| CID 3427. Equipment Events | 555 |
| CID 3428. Imaging Procedures | 556 |
| CID 3429. Catheterization Devices | 556 |
| CID 3430. DateTime Qualifiers | 557 |
| CID 3440. Peripheral Pulse Locations | 557 |
| CID 3441. Patient Assessments | 557 |
| CID 3442. Peripheral Pulse Methods | 558 |
| CID 3446. Skin Condition | 558 |
| CID 3448. Airway Assessment | 558 |
| CID 3451. Calibration Objects | 558 |
| CID 3452. Calibration Methods | 559 |
| CID 3453. Cardiac Volume Methods | 559 |
| CID 3455. Index Methods | 559 |
| CID 3456. Sub-segment Methods | 559 |
| CID 3458. Contour Realignment | 560 |
| CID 3460. Circumferential Extent | 560 |
| CID 3461. Regional Extent | 560 |
| CID 3462. Chamber Identification | 560 |
| CID 3463. Ventricle Identification | 561 |
| CID 3465. QA Reference Methods | 561 |
| CID 3466. Plane Identification | 561 |
| CID 3467. Ejection Fraction | 561 |
| CID 3468. ED Volume | 562 |
| CID 3469. ES Volume | 562 |
| CID 3470. Vessel Lumen Cross-sectional Area Calculation Methods | 562 |
| CID 3471. Estimated Volumes | 562 |
| CID 3472. Cardiac Contraction Phase | 563 |
| CID 3480. IVUS Procedure Phases | 563 |
| CID 3481. IVUS Distance Measurements | 563 |
| CID 3482. IVUS Area Measurements | 563 |
| CID 3483. IVUS Longitudinal Measurements | 564 |
| CID 3484. IVUS Indices and Ratios | 564 |
| CID 3485. IVUS Volume Measurements | 565 |
| CID 3486. Vascular Measurement Sites | 565 |
| CID 3487. Intravascular Volumetric Regions | 565 |
| CID 3488. Min/Max/Mean | 566 |
| CID 3489. Calcium Distribution | 566 |
| CID 3491. IVUS Lesion Morphologies | 566 |
| CID 3492. Vascular Dissection Classifications | 567 |
| CID 3493. IVUS Relative Stenosis Severities | 567 |
| CID 3494. IVUS Non Morphological Findings | 567 |
| CID 3495. IVUS Plaque Composition | 568 |
| CID 3496. IVUS Fiducial Points | 568 |
| CID 3497. IVUS Arterial Morphology | 568 |
| CID 3500. Pressure Units | 569 |
| CID 3502. Hemodynamic Resistance Units | 569 |
| CID 3503. Indexed Hemodynamic Resistance Units | 569 |
| CID 3510. Catheter Size Units | 569 |
| CID 3515. Specimen Collection | 569 |
| CID 3520. Blood Source Type | 570 |

| | |
|---|-----|
| CID 3524. Blood Gas Pressures | 570 |
| CID 3525. Blood Gas Content | 570 |
| CID 3526. Blood Gas Saturation | 571 |
| CID 3527. Blood Base Excess | 571 |
| CID 3528. Blood pH | 571 |
| CID 3529. Arterial / Venous Content | 572 |
| CID 3530. Oxygen Administration Actions | 572 |
| CID 3531. Oxygen Administration | 572 |
| CID 3550. Circulatory Support Actions | 572 |
| CID 3551. Ventilation Actions | 573 |
| CID 3552. Pacing Actions | 573 |
| CID 3553. Circulatory Support | 573 |
| CID 3554. Ventilation | 573 |
| CID 3555. Pacing | 574 |
| CID 3560. Blood Pressure Methods | 574 |
| CID 3600. Relative Times | 574 |
| CID 3602. Hemodynamic Patient State | 574 |
| CID 3604. Arterial Lesion Locations | 575 |
| CID 3606. Arterial Source Locations | 575 |
| CID 3607. Venous Source Locations | 576 |
| CID 3608. Atrial Source Locations | 578 |
| CID 3609. Ventricular Source Locations | 578 |
| CID 3610. Gradient Source Locations | 578 |
| CID 3611. Pressure Measurements | 579 |
| CID 3612. Blood Velocity Measurements | 579 |
| CID 3613. Hemodynamic Time Measurements | 580 |
| CID 3614. Valve Areas, Non-mitral | 580 |
| CID 3615. Valve Areas | 580 |
| CID 3616. Hemodynamic Period Measurements | 581 |
| CID 3617. Valve Flows | 581 |
| CID 3618. Hemodynamic Flows | 581 |
| CID 3619. Hemodynamic Resistance Measurements | 581 |
| CID 3620. Hemodynamic Ratios | 582 |
| CID 3621. Fractional Flow Reserve | 582 |
| CID 3627. Measurement Type | 582 |
| CID 3628. Cardiac Output Methods | 583 |
| CID 3629. Procedure Intent | 583 |
| CID 3630. Cardiovascular Anatomic Locations | 584 |
| CID 3640. Hypertension | 584 |
| CID 3641. Hemodynamic Assessments | 584 |
| CID 3642. Degree Findings | 585 |
| CID 3651. Hemodynamic Measurement Phase | 585 |
| CID 3663. Body Surface Area Equations | 585 |
| CID 3664. Oxygen Consumption Equations and Tables | 586 |
| CID 3666. P50 Equations | 586 |
| CID 3667. Framingham Scores | 587 |
| CID 3668. Framingham Tables | 587 |
| CID 3670. ECG Procedure Types | 587 |
| CID 3671. Reason for ECG Exam | 587 |
| CID 3676. Lead Measurement Technique | 588 |
| CID 3677. Summary Codes ECG | 589 |
| CID 3678. QT Correction Algorithms | 589 |
| CID 3680. ECG Lead Noise Descriptions | 589 |
| CID 3687. Electrophysiology Waveform Durations | 590 |
| CID 3688. Electrophysiology Waveform Voltages | 591 |
| CID 3689. ECG Global Waveform Durations | 592 |
| CID 3690. ECG Control Variables Numeric | 593 |
| CID 3691. ECG Control Variables Text | 593 |
| CID 3700. Cath Diagnosis | 594 |
| CID 3701. Cardiac Valves and Tracts | 596 |

| | |
|--|-----|
| CID 3703. Wall Motion | 596 |
| CID 3704. Myocardium Wall Morphology Findings | 597 |
| CID 3705. Chamber Size | 597 |
| CID 3706. Overall Contractility | 597 |
| CID 3707. VSD Description | 597 |
| CID 3709. Aortic Root Description | 598 |
| CID 3710. Coronary Dominance | 598 |
| CID 3711. Valvular Abnormalities | 598 |
| CID 3712. Vessel Descriptors | 599 |
| CID 3713. TIMI Flow Characteristics | 599 |
| CID 3714. Thrombus | 599 |
| CID 3715. Lesion Margin | 600 |
| CID 3716. Severity | 600 |
| CID 3717. Myocardial Wall Segments | 600 |
| CID 3718. Myocardial Wall Segments in Projection | 601 |
| CID 3719. Canadian Clinical Classification | 601 |
| CID 3721. Cardiovascular Surgeries | 602 |
| CID 3722. Diabetic Therapy | 602 |
| CID 3723. MI Types | 603 |
| CID 3724. Smoking History | 603 |
| CID 3726. Indications for Coronary Intervention | 603 |
| CID 3727. Indications for Catheterization | 604 |
| CID 3728. Cath Findings | 604 |
| CID 3729. Admission Status | 605 |
| CID 3730. Insurance Payor | 606 |
| CID 3733. Primary Cause of Death | 606 |
| CID 3735. Acute Coronary Syndrome Time Period | 606 |
| CID 3736. NYHA Classification | 606 |
| CID 3737. Non-invasive Test - Ischemia | 607 |
| CID 3738. Pre-Cath Angina Type | 607 |
| CID 3739. Cath Procedure Type | 607 |
| CID 3740. Thrombolytic Administration | 608 |
| CID 3741. Medication Administration, Lab Visit | 608 |
| CID 3742. Medication Administration, PCI | 608 |
| CID 3743. Clopidogrel/Ticlopidine Administration | 609 |
| CID 3744. EF Testing Method | 609 |
| CID 3745. Calculation Method | 609 |
| CID 3746. Percutaneous Entry Site | 610 |
| CID 3747. Percutaneous Closure | 610 |
| CID 3748. Angiographic EF Testing Method | 610 |
| CID 3749. PCI Procedure Result | 610 |
| CID 3750. Previously Dilated Lesion | 611 |
| CID 3752. Guidewire Crossing | 611 |
| CID 3754. Vascular Complications | 611 |
| CID 3755. Cath Complications | 612 |
| CID 3756. Cardiac Patient Risk Factors | 612 |
| CID 3757. Cardiac Diagnostic Procedures | 613 |
| CID 3758. Cardiovascular Family History | 614 |
| CID 3760. Hypertension Therapy | 614 |
| CID 3761. Antilipemic Agents | 614 |
| CID 3762. Antiarrhythmic Agents | 615 |
| CID 3764. Myocardial Infarction Therapies | 615 |
| CID 3769. Concern Types | 615 |
| CID 3770. Problem Status | 616 |
| CID 3772. Health Status | 616 |
| CID 3773. Use Status | 616 |
| CID 3774. Social History | 617 |
| CID 3777. Implanted Devices | 617 |
| CID 3778. Stages | 617 |
| CID 3802. Plaque Structures | 617 |

| | |
|--|-----|
| CID 3804. Stenosis Measurement Methods | 618 |
| CID 3805. Stenosis Types | 618 |
| CID 3806. Stenosis Shape | 618 |
| CID 3807. Volume Measurement Methods | 619 |
| CID 3808. Aneurysm Types | 619 |
| CID 3809. Associated Conditions | 620 |
| CID 3810. Vascular Morphology | 620 |
| CID 3813. Stent Findings | 620 |
| CID 3814. Stent Composition | 621 |
| CID 3815. Source of Vascular Finding | 621 |
| CID 3817. Vascular Sclerosis Types | 621 |
| CID 3820. Non-invasive Vascular Procedures | 622 |
| CID 3821. Papillary Muscle Included/Excluded | 622 |
| CID 3823. Respiratory Status | 622 |
| CID 3826. Heart Rhythm | 623 |
| CID 3827. Vessel Segments | 623 |
| CID 3829. Pulmonary Arteries | 624 |
| CID 3831. Stenosis Length | 624 |
| CID 3832. Stenosis Grade | 624 |
| CID 3833. Cardiac Ejection Fraction | 624 |
| CID 3835. Cardiac Volume Measurements | 625 |
| CID 3836. Time-based Perfusion Measurements | 625 |
| CID 3837. Fiducial Feature | 625 |
| CID 3838. Diameter Derivation | 625 |
| CID 3839. Coronary Veins | 626 |
| CID 3840. Pulmonary Veins | 626 |
| CID 3843. Myocardial Subsegment | 627 |
| CID 3850. Intravascular OCT Flush Agent | 627 |
| CID 4005. Partial View Section for Mammography | 627 |
| CID 4009. DX Anatomy Imaged | 627 |
| CID 4010. DX View | 628 |
| CID 4011. DX View Modifier | 629 |
| CID 4012. Projection Eponymous Name | 630 |
| CID 4013. Anatomic Region for Mammography | 632 |
| CID 4014. View for Mammography | 632 |
| CID 4015. View Modifier for Mammography | 633 |
| CID 4016. Anatomic Region for Intra-oral Radiography | 634 |
| CID 4017. Anatomic Region Modifier for Intra-oral Radiography | 635 |
| CID 4018. Primary Anatomic Structure for Intra-oral Radiography (Permanent Dentition - Designation of Teeth) | 635 |
| CID 4019. Primary Anatomic Structure for Intra-oral Radiography (Deciduous Dentition - Designation of Teeth) | 636 |
| CID 4020. PET Radionuclide | 638 |
| CID 4021. PET Radiopharmaceutical | 639 |
| CID 4025. Primary Anatomic Structure for Intra-oral Radiography (Supernumerary Dentition - Designation of Teeth) | 642 |
| CID 4026. Primary Anatomic Structure for Intra-oral and Craniofacial Radiography - Teeth | 644 |
| CID 4028. Craniofacial Anatomic Regions | 645 |
| CID 4030. CT, MR and PET Anatomy Imaged | 646 |
| CID 4031. Common Anatomic Regions | 647 |
| CID 4032. MR Spectroscopy Metabolites | 650 |
| CID 4033. MR Proton Spectroscopy Metabolites | 650 |
| CID 4040. Endoscopy Anatomic Regions | 650 |
| CID 4042. XA/XRF Anatomy Imaged | 652 |
| CID 4050. Drug or Contrast Agent Characteristics | 652 |
| CID 4051. General Devices | 652 |
| CID 4052. Phantom Devices | 652 |
| CID 4100. T1 Measurement Methods | 653 |
| CID 4101. Tracer Kinetic Models | 653 |
| CID 4102. Perfusion Measurement Methods | 653 |
| CID 4103. Arterial Input Function Measurement Methods | 654 |
| CID 4104. Bolus Arrival Time Derivation Methods | 654 |
| CID 4105. Perfusion Analysis Methods | 654 |

| | |
|---|-----|
| CID 4106. Quantitative Methods used for Perfusion And Tracer Kinetic Models | 655 |
| CID 4107. Tracer Kinetic Model Parameters | 655 |
| CID 4108. Perfusion Model Parameters | 655 |
| CID 4109. Model-Independent Dynamic Contrast Analysis Parameters | 656 |
| CID 4110. Tracer Kinetic Modeling Covariates | 657 |
| CID 4111. Contrast Characteristics | 657 |
| CID 4200. Ophthalmic Imaging Agent | 657 |
| CID 4201. Patient Eye Movement Command | 657 |
| CID 4202. Ophthalmic Photography Acquisition Device | 658 |
| CID 4203. Ophthalmic Photography Illumination | 658 |
| CID 4204. Ophthalmic Filter | 659 |
| CID 4205. Ophthalmic Lens | 659 |
| CID 4206. Ophthalmic Channel Description | 659 |
| CID 4207. Ophthalmic Image Position | 660 |
| CID 4208. Mydriatic Agent | 661 |
| CID 4209. Ophthalmic Anatomic Structure Imaged | 661 |
| CID 4210. Ophthalmic Tomography Acquisition Device | 662 |
| CID 4211. Ophthalmic OCT Anatomic Structure Imaged | 662 |
| CID 4214. Ophthalmic Horizontal Directions | 662 |
| CID 4215. Ophthalmic Vertical Directions | 663 |
| CID 4216. Ophthalmic Visual Acuity Type | 663 |
| CID 4220. Visual Fixation Quality During Acquisition | 663 |
| CID 4221. Visual Fixation Quality Problem | 663 |
| CID 4222. Ophthalmic Macular Grid Problem | 664 |
| CID 4230. Ophthalmic Ultrasound Axial Measurements Type | 664 |
| CID 4231. Lens Status | 664 |
| CID 4232. Vitreous Status | 665 |
| CID 4233. Ophthalmic Axial Length Measurements Segment Names | 665 |
| CID 4234. Refractive Surgery Types | 665 |
| CID 4235. Keratometry Descriptors | 666 |
| CID 4236. IOL Calculation Formula | 666 |
| CID 4237. Lens Constant Type | 666 |
| CID 4238. Refractive Error Types | 667 |
| CID 4239. Anterior Chamber Depth Definition | 667 |
| CID 4240. Ophthalmic Measurement or Calculation Data Source | 667 |
| CID 4241. Ophthalmic Axial Length Selection Method | 667 |
| CID 4243. Ophthalmic Quality Metric Type | 667 |
| CID 4244. Ophthalmic Agent Concentration Units | 668 |
| CID 4245. Wide Field Ophthalmic Photography Transformation Method | 668 |
| CID 4250. Visual Field Static Perimetry Test Patterns | 668 |
| CID 4251. Visual Field Static Perimetry Test Strategies | 669 |
| CID 4252. Visual Field Static Perimetry Screening Test Modes | 669 |
| CID 4253. Visual Field Static Perimetry Fixation Strategy | 670 |
| CID 4254. Visual Field Static Perimetry Test Analysis Results | 670 |
| CID 4255. Visual Field Illumination Color | 670 |
| CID 4256. Visual Field Procedure Modifier | 670 |
| CID 4257. Visual Field Global Index Name | 671 |
| CID 4260. Ophthalmic Mapping Units for Real World Value Mapping | 671 |
| CID 4261. Ophthalmic Mapping Acquisition Method | 671 |
| CID 4262. Retinal Thickness Definition | 671 |
| CID 4263. Ophthalmic Thickness Map Value Type | 672 |
| CID 4264. Ophthalmic Map Purposes of Reference | 672 |
| CID 4265. Ophthalmic Thickness Deviation Categories | 672 |
| CID 4266. Ophthalmic Anatomic Structure Reference Point | 672 |
| CID 4267. Corneal Topography Mapping Units for Real World Value Mapping | 673 |
| CID 4268. Corneal Topography Map Value Type | 673 |
| CID 4270. OCT-A Processing Algorithm Families | 673 |
| CID 4271. En Face Image Types | 674 |
| CID 4272. OPT Scan Pattern Types | 674 |
| CID 4273. Retinal Segmentation Surfaces | 675 |

| | |
|--|-----|
| CID 6000. Overall Breast Composition | 676 |
| CID 6001. Overall Breast Composition from BI-RADS® | 676 |
| CID 6002. Change Since Last Mammogram or Prior Surgery | 677 |
| CID 6003. Change Since Last Mammogram or Prior Surgery from BI-RADS® | 677 |
| CID 6004. Mammography Characteristics of Shape | 678 |
| CID 6005. Characteristics of Shape from BI-RADS® | 678 |
| CID 6006. Mammography Characteristics of Margin | 678 |
| CID 6007. Characteristics of Margin from BI-RADS® | 679 |
| CID 6008. Density Modifier | 679 |
| CID 6009. Density Modifier from BI-RADS® | 679 |
| CID 6010. Mammography Calcification Types | 680 |
| CID 6011. Calcification Types from BI-RADS® | 680 |
| CID 6012. Calcification Distribution Modifier | 680 |
| CID 6013. Calcification Distribution Modifier from BI-RADS® | 681 |
| CID 6014. Mammography Single Image Finding | 681 |
| CID 6015. Single Image Finding from BI-RADS® | 682 |
| CID 6016. Mammography Composite Feature | 682 |
| CID 6017. Composite Feature from BI-RADS® | 683 |
| CID 6018. Clockface Location or Region | 683 |
| CID 6019. Clockface Location or Region from BI-RADS® | 683 |
| CID 6020. Quadrant Location | 684 |
| CID 6021. Quadrant Location from BI-RADS® | 684 |
| CID 6022. Side | 684 |
| CID 6023. Side from BI-RADS® | 685 |
| CID 6024. Depth | 685 |
| CID 6025. Depth from BI-RADS® | 685 |
| CID 6026. Mammography Assessment | 685 |
| CID 6027. Assessment from BI-RADS® | 686 |
| CID 6028. Mammography Recommended Follow-up | 686 |
| CID 6029. Recommended Follow-up from BI-RADS® | 687 |
| CID 6030. Mammography Pathology Codes | 688 |
| CID 6031. Benign Pathology Codes from BI-RADS® | 688 |
| CID 6032. High Risk Lesions Pathology Codes from BI-RADS® | 690 |
| CID 6033. Malignant Pathology Codes from BI-RADS® | 690 |
| CID 6034. Intended Use of CAD Output | 692 |
| CID 6035. Composite Feature Relations | 693 |
| CID 6036. Scope of Feature | 693 |
| CID 6037. Mammography Quantitative Temporal Difference Type | 693 |
| CID 6038. Mammography Qualitative Temporal Difference Type | 693 |
| CID 6039. Nipple Characteristic | 694 |
| CID 6040. Non-lesion Object Type | 694 |
| CID 6041. Mammography Image Quality Finding | 694 |
| CID 6042. Status of Results | 696 |
| CID 6043. Types of Mammography CAD Analysis | 696 |
| CID 6044. Types of Image Quality Assessment | 697 |
| CID 6045. Mammography Types of Quality Control Standard | 697 |
| CID 6046. Units of Follow-up Interval | 697 |
| CID 6047. CAD Processing and Findings Summary | 697 |
| CID 6048. CAD Operating Point Axis Label | 698 |
| CID 6050. Breast Procedure Reported | 698 |
| CID 6051. Breast Procedure Reason | 699 |
| CID 6052. Breast Imaging Report Section Title | 699 |
| CID 6053. Breast Imaging Report Elements | 700 |
| CID 6054. Breast Imaging Findings | 700 |
| CID 6055. Breast Clinical Finding or Indicated Problem | 701 |
| CID 6056. Associated Findings for Breast | 701 |
| CID 6057. Ductography Findings for Breast | 702 |
| CID 6058. Procedure Modifiers for Breast | 702 |
| CID 6059. Breast Implant Types | 702 |
| CID 6060. Breast Biopsy Techniques | 703 |

| | |
|--|-----|
| CID 6061. Breast Imaging Procedure Modifiers | 704 |
| CID 6062. Interventional Procedure Complications | 704 |
| CID 6063. Interventional Procedure Results | 704 |
| CID 6064. Ultrasound Findings for Breast | 705 |
| CID 6065. Instrument Approach | 705 |
| CID 6066. Target Confirmation | 706 |
| CID 6067. Fluid Color | 706 |
| CID 6068. Tumor Stages From AJCC | 706 |
| CID 6069. Nottingham Combined Histologic Grade | 707 |
| CID 6070. Bloom-Richardson Histologic Grade | 707 |
| CID 6071. Histologic Grading Method | 707 |
| CID 6072. Breast Implant Findings | 708 |
| CID 6080. Gynecological Hormones | 708 |
| CID 6081. Breast Cancer Risk Factors | 708 |
| CID 6082. Gynecological Procedures | 709 |
| CID 6083. Procedures for Breast | 709 |
| CID 6084. Mammoplasty Procedures | 710 |
| CID 6085. Therapies for Breast | 710 |
| CID 6086. Menopausal Phase | 710 |
| CID 6087. General Risk Factors | 710 |
| CID 6088. OB-GYN Maternal Risk Factors | 711 |
| CID 6089. Substances | 711 |
| CID 6090. Relative Usage, Exposure Amount | 712 |
| CID 6091. Relative Frequency of Event Values | 712 |
| CID 6092. Quantitative Concepts for Usage, Exposure | 712 |
| CID 6093. Qualitative Concepts for Usage, Exposure Amount | 713 |
| CID 6094. Qualitative Concepts for Usage, Exposure Frequency | 713 |
| CID 6095. Numeric Properties of Procedures | 713 |
| CID 6096. Pregnancy Status | 713 |
| CID 6097. Side of Family | 714 |
| CID 6100. Chest Component Categories | 714 |
| CID 6101. Chest Finding or Feature | 714 |
| CID 6102. Chest Finding or Feature Modifier | 715 |
| CID 6103. Abnormal Lines Finding or Feature | 715 |
| CID 6104. Abnormal Opacity Finding or Feature | 716 |
| CID 6105. Abnormal Lucency Finding or Feature | 716 |
| CID 6106. Abnormal Texture Finding or Feature | 717 |
| CID 6107. Width Descriptor | 717 |
| CID 6108. Chest Anatomic Structure Abnormal Distribution | 718 |
| CID 6109. Radiographic Anatomy Finding or Feature | 718 |
| CID 6110. Lung Anatomy Finding or Feature | 718 |
| CID 6111. Bronchovascular Anatomy Finding or Feature | 719 |
| CID 6112. Pleura Anatomy Finding or Feature | 719 |
| CID 6113. Mediastinum Anatomy Finding or Feature | 719 |
| CID 6114. Osseous Anatomy Finding or Feature | 720 |
| CID 6115. Osseous Anatomy Modifiers | 721 |
| CID 6116. Muscular Anatomy | 722 |
| CID 6117. Vascular Anatomy | 722 |
| CID 6118. Size Descriptor | 724 |
| CID 6119. Chest Border Shape | 724 |
| CID 6120. Chest Border Definition | 724 |
| CID 6121. Chest Orientation Descriptor | 725 |
| CID 6122. Chest Content Descriptor | 725 |
| CID 6123. Chest Opacity Descriptor | 725 |
| CID 6124. Location in Chest | 726 |
| CID 6125. General Chest Location | 726 |
| CID 6126. Location in Lung | 726 |
| CID 6127. Segment Location in Lung | 726 |
| CID 6128. Chest Distribution Descriptor | 727 |
| CID 6129. Chest Site Involvement | 727 |

| | |
|---|-----|
| CID 6130. Severity Descriptor | 728 |
| CID 6131. Chest Texture Descriptor | 728 |
| CID 6132. Chest Calcification Descriptor | 728 |
| CID 6133. Chest Quantitative Temporal Difference Type | 729 |
| CID 6134. Chest Qualitative Temporal Difference Type | 729 |
| CID 6135. Image Quality Finding | 730 |
| CID 6136. Chest Types of Quality Control Standard | 730 |
| CID 6137. Types of CAD Analysis | 730 |
| CID 6138. Chest Non-lesion Object Type | 731 |
| CID 6139. Non-lesion Modifiers | 732 |
| CID 6140. Calculation Methods | 732 |
| CID 6141. Attenuation Coefficient Measurements | 732 |
| CID 6142. Calculated Value | 732 |
| CID 6143. Lesion Response | 733 |
| CID 6144. RECIST Defined Lesion Response | 733 |
| CID 6145. Baseline Category | 734 |
| CID 6146. Time Point Types | 734 |
| CID 6147. Response Criteria | 734 |
| CID 6151. Background Echotexture | 735 |
| CID 6152. Orientation | 735 |
| CID 6153. Lesion Boundary | 735 |
| CID 6154. Echo Pattern | 735 |
| CID 6155. Posterior Acoustic Features | 736 |
| CID 6157. Vascularity | 736 |
| CID 6158. Correlation to Other Findings | 736 |
| CID 6159. Malignancy Type | 737 |
| CID 6160. Breast Primary Tumor Assessment From AJCC | 737 |
| CID 6161. Clinical Regional Lymph Node Assessment for Breast | 738 |
| CID 6162. Assessment of Metastasis for Breast | 739 |
| CID 6163. Menstrual Cycle Phase | 739 |
| CID 6164. Time Intervals | 739 |
| CID 6165. Breast Linear Measurements | 739 |
| CID 6166. CAD Geometry Secondary Graphical Representation | 740 |
| CID 6200. Colon Overall Assessment | 740 |
| CID 6201. Colon Finding or Feature | 740 |
| CID 6202. Colon Finding or Feature Modifier | 741 |
| CID 6203. Colon Non-lesion Object Type | 741 |
| CID 6204. Anatomic Non-colon Findings | 742 |
| CID 6205. Clockface Location for Colon | 743 |
| CID 6206. Recumbent Patient Orientation for Colon | 743 |
| CID 6207. Colon Quantitative Temporal Difference Type | 743 |
| CID 6208. Colon Types of Quality Control Standard | 744 |
| CID 6209. Colon Morphology Descriptor | 744 |
| CID 6210. Location in Intestinal Tract | 744 |
| CID 6211. Colon CAD Material Description | 745 |
| CID 6212. Calculated Value for Colon Findings | 745 |
| CID 6300. Prostate Sector Anatomy | 745 |
| CID 6301. Prostate Sector Anatomy from PI-RADS v2 | 746 |
| CID 6302. Prostate Sector Anatomy from European Consensus 16 Sector (Minimal) Model | 748 |
| CID 6303. Prostate Sector Anatomy from European Consensus 27 Sector (Optimal) Model | 749 |
| CID 7000. Diagnostic Imaging Report Document Titles | 750 |
| CID 7001. Diagnostic Imaging Report Headings | 751 |
| CID 7002. Diagnostic Imaging Report Elements | 752 |
| CID 7003. Diagnostic Imaging Report Purposes of Reference | 752 |
| CID 7004. Waveform Purposes of Reference | 752 |
| CID 7005. Contributing Equipment Purposes of Reference | 753 |
| CID 7006. SR Document Purposes of Reference | 753 |
| CID 7008. Media Import | 753 |
| CID 7009. Purpose of Reference to Predecessor Report | 754 |
| CID 7010. Key Object Selection Document Title | 754 |

| | |
|---|-----|
| CID 7011. Rejected for Quality Reasons | 755 |
| CID 7012. Best in Set | 756 |
| CID 7013. Source Instance Purposes of Reference | 756 |
| CID 7021. Measurement Report Document Titles | 757 |
| CID 7022. Radiotherapy Purposes of Reference | 757 |
| CID 7023. RT Process Output | 757 |
| CID 7024. RT Process Input | 758 |
| CID 7025. RT Process Input Used | 758 |
| CID 7030. Institutional Departments, Units and Services | 759 |
| CID 7035. Actionable Finding Classification | 761 |
| CID 7036. Image Quality Assessment | 761 |
| CID 7039. Pediatric Size Categories | 761 |
| CID 7040. Broselow-Luten Pediatric Size Categories | 762 |
| CID 7041. Calcium Scoring Patient Size Categories | 762 |
| CID 7042. CMDCTECC Calcium Scoring Patient Size Categories | 762 |
| CID 7050. De-identification Method | 762 |
| CID 7100. RCS Registration Method Type | 763 |
| CID 7101. Brain Atlas Fiducials | 763 |
| CID 7110. Fiducials Categories | 764 |
| CID 7111. Fiducials | 764 |
| CID 7140. Brain Structures for Volumetric Measurements | 764 |
| CID 7150. Segmentation Property Categories | 765 |
| CID 7151. Segmentation Property Types | 765 |
| CID 7152. Cardiac Structure Segmentation Types | 766 |
| CID 7153. CNS Tissue Segmentation Types | 767 |
| CID 7154. Abdominal Organ Segmentation Types | 768 |
| CID 7155. Thoracic Tissue Segmentation Types | 769 |
| CID 7156. Vascular Tissue Segmentation Types | 770 |
| CID 7157. Device Segmentation Types | 770 |
| CID 7158. Artifact Segmentation Types | 770 |
| CID 7159. Lesion Segmentation Types | 771 |
| CID 7160. Pelvic Organ Segmentation Types | 771 |
| CID 7161. Physiology Segmentation Types | 772 |
| CID 7162. Surface Processing Algorithm Families | 772 |
| CID 7165. Abstract Segmentation Types | 772 |
| CID 7166. Common Tissue Segmentation Types | 773 |
| CID 7167. Peripheral Nervous System Segmentation Types | 773 |
| CID 7180. Abstract Multi-dimensional Image Model Component Semantics | 774 |
| CID 7181. Abstract Multi-dimensional Image Model Component Units | 776 |
| CID 7182. Abstract Multi-dimensional Image Model Dimension Semantics | 777 |
| CID 7183. Abstract Multi-dimensional Image Model Dimension Units | 777 |
| CID 7184. Abstract Multi-dimensional Image Model Axis Direction | 778 |
| CID 7185. Abstract Multi-dimensional Image Model Axis Orientation | 778 |
| CID 7186. Abstract Multi-dimensional Image Model Qualitative Dimension Sample Semantics | 778 |
| CID 7201. Referenced Image Purposes of Reference | 779 |
| CID 7202. Source Image Purposes of Reference | 780 |
| CID 7203. Image Derivation | 780 |
| CID 7205. Purpose of Reference to Alternate Representation | 781 |
| CID 7210. Related Series Purposes of Reference | 782 |
| CID 7215. Spectroscopy Purpose of Reference | 782 |
| CID 7220. RT Dose Derivation | 782 |
| CID 7221. RT Dose Purpose of Reference | 782 |
| CID 7222. Parametric Map Derivation Image Purpose of Reference | 782 |
| CID 7250. Multi-Frame Subset Type | 783 |
| CID 7260. Diffusion Acquisition Value Types | 783 |
| CID 7261. Diffusion Model Value Types | 783 |
| CID 7262. Diffusion Tractography Algorithm Families | 784 |
| CID 7263. Diffusion Tractography Measurement Types | 784 |
| CID 7270. MR Diffusion Component Semantics | 785 |
| CID 7271. MR Diffusion Anisotropy Indices | 785 |

| | |
|---|-----|
| CID 7272. MR Diffusion Model Parameters | 785 |
| CID 7273. MR Diffusion Models | 786 |
| CID 7274. MR Diffusion Model Fitting Methods | 786 |
| CID 7275. MR Diffusion Model Specific Methods | 787 |
| CID 7276. MR Diffusion Model Inputs | 787 |
| CID 7277. Units of Diffusion Rate Area Over Time | 787 |
| CID 7300. Implant Materials | 787 |
| CID 7301. Intervention Types | 788 |
| CID 7302. Implant Templates View Orientations | 788 |
| CID 7303. Implant Templates Modified View Orientations | 788 |
| CID 7304. Implant Target Anatomy | 788 |
| CID 7305. Implant Planning Landmarks | 790 |
| CID 7306. Human Hip Implant Planning Landmarks | 790 |
| CID 7307. Implant Component Types | 790 |
| CID 7308. Human Hip Implant Component Types | 790 |
| CID 7309. Human Trauma Implant Component Types | 791 |
| CID 7310. Implant Fixation Method | 791 |
| CID 7320. Planning Methods | 792 |
| CID 7445. Device Participating Roles | 792 |
| CID 7449. Reader Specialty | 792 |
| CID 7450. Person Roles | 793 |
| CID 7451. Family Member | 793 |
| CID 7452. Organizational Roles | 794 |
| CID 7453. Performing Roles | 795 |
| CID 7454. Animal Taxonomic Rank Values | 795 |
| CID 7455. Sex | 796 |
| CID 7456. Units of Measure for Age | 797 |
| CID 7457. Sex - Male Female or Both | 797 |
| CID 7460. Units of Linear Measurement | 798 |
| CID 7461. Units of Area Measurement | 798 |
| CID 7462. Units of Volume Measurement | 798 |
| CID 7464. General Region of Interest Measurement Modifiers | 798 |
| CID 7465. Measurements Derived From Multiple ROI Measurements | 799 |
| CID 7466. PET Region of Interest Measurements | 799 |
| CID 7467. Grey Level Co-occurrence Matrix Measurements | 799 |
| CID 7468. Texture Measurements | 800 |
| CID 7469. Generic Intensity and Size Measurements | 800 |
| CID 7470. Linear Measurements | 800 |
| CID 7471. Area Measurements | 801 |
| CID 7472. Volume Measurements | 801 |
| CID 7473. General Area Calculation Methods | 802 |
| CID 7474. General Volume Calculation Methods | 802 |
| CID 7480. Breed | 802 |
| CID 7481. Breed Registry | 870 |
| CID 7482. DX Anatomy Imaged for Animals | 871 |
| CID 7483. Common Anatomic Regions for Animals | 871 |
| CID 7484. DX View for Animals | 873 |
| CID 7486. Mixed Breeds | 876 |
| CID 7490. Research Animal Source Registries | 876 |
| CID 7600. Lymph Node Anatomic Sites | 876 |
| CID 7601. Head and Neck Cancer Anatomic Sites | 882 |
| CID 7701. Fiber Tracts In Brainstem | 882 |
| CID 7702. Projection and Thalamic Fibers | 883 |
| CID 7703. Association Fibers | 884 |
| CID 7704. Limbic System Tracts | 884 |
| CID 7705. Commissural Fibers | 884 |
| CID 7706. Cranial Nerves | 885 |
| CID 7707. Spinal Cord Fibers | 885 |
| CID 7710. Tractography Anatomic Sites | 886 |
| CID 8101. Container Types | 886 |

| | |
|---|-----|
| CID 8102. Container Component Types | 886 |
| CID 8103. Anatomic Pathology Specimen Types | 887 |
| CID 8104. Breast Tissue Specimen Types | 887 |
| CID 8109. Specimen Collection Procedure | 888 |
| CID 8110. Specimen Sampling Procedure | 888 |
| CID 8111. Specimen Preparation Procedure | 889 |
| CID 8112. Specimen Stains | 889 |
| CID 8113. Specimen Preparation Steps | 895 |
| CID 8114. Specimen Fixatives | 895 |
| CID 8115. Specimen Embedding Media | 896 |
| CID 8120. WSI Referenced Image Purposes of Reference | 896 |
| CID 8121. Microscopy Lens Type | 896 |
| CID 8122. Microscopy Illuminator and Sensor Color | 897 |
| CID 8123. Microscopy Illumination Method | 897 |
| CID 8124. Microscopy Filter | 897 |
| CID 8125. Microscopy Illuminator Type | 898 |
| CID 8130. Staining Protocols | 898 |
| CID 8131. Pathology Imaging Protocols | 899 |
| CID 8132. Magnification Selection | 899 |
| CID 8133. Tissue Selection | 899 |
| CID 8201. Surface Scan Acquisition Types | 899 |
| CID 8202. Surface Scan Mode Types | 900 |
| CID 8203. Surface Scan Registration Method Types | 900 |
| CID 8300. Visual Evaluation Methods | 900 |
| CID 8301. Test Pattern Codes | 901 |
| CID 8302. Measurement Pattern Codes | 903 |
| CID 8303. Display Device Type | 904 |
| CID 9000. Physical Quantity Descriptors | 904 |
| CID 9231. Workitem Definition | 904 |
| CID 9233. Requested Report Types | 905 |
| CID 9241. Radiotherapy General Workitem Definition | 905 |
| CID 9242. Radiotherapy Acquisition Workitem Definition | 906 |
| CID 9243. Radiotherapy Registration Workitem Definition | 906 |
| CID 9250. Scheduled Processing Parameter Concept Codes for RT Treatment | 906 |
| CID 9300. Procedure Discontinuation Reasons | 907 |
| CID 9301. Modality PPS Discontinuation Reasons | 907 |
| CID 9302. Media Import PPS Discontinuation Reasons | 908 |
| CID 9401. IEC61217 Device Position Parameters | 908 |
| CID 9402. IEC61217 Gantry Position Parameters | 908 |
| CID 9403. IEC61217 Patient Support Position Parameters | 908 |
| CID 10000. Scope of Accumulation | 909 |
| CID 10001. UID Types | 909 |
| CID 10002. Irradiation Event Types | 909 |
| CID 10003. Equipment Plane Identification | 909 |
| CID 10004. Fluoro Modes | 910 |
| CID 10006. X-Ray Filter Materials | 910 |
| CID 10007. X-Ray Filter Types | 910 |
| CID 10008. Dose Related Distance Measurements | 911 |
| CID 10009. Measured/Calculated | 911 |
| CID 10010. Dose Measurement Devices | 911 |
| CID 10011. Effective Dose Evaluation Method | 911 |
| CID 10013. CT Acquisition Type | 912 |
| CID 10014. Contrast Imaging Technique | 912 |
| CID 10015. CT Dose Reference Authorities | 912 |
| CID 10016. Anode Target Material | 912 |
| CID 10017. X-Ray Grid | 913 |
| CID 10020. Source of Projection X-Ray Dose Information | 913 |
| CID 10021. Source of CT Dose Information | 913 |
| CID 10022. Label Types | 914 |
| CID 10023. Size Specific Dose Estimation Method for CT | 914 |

| | |
|---|-----|
| CID 10024. Water Equivalent Diameter Method | 914 |
| CID 10025. Radiation Dose Reference Points | 914 |
| CID 10030. Detector Types | 915 |
| CID 10031. CR/DR Mechanical Configuration | 915 |
| CID 10032. Projection X-Ray Acquisition Device Types | 915 |
| CID 10033. CT Reconstruction Algorithm | 915 |
| CID 10034. Reason for Repeating Acquisition | 916 |
| CID 10040. Radiopharmaceutical Organ Dose Reference Authority | 916 |
| CID 10041. Source of Radioisotope Activity Information | 916 |
| CID 10043. Intravenous Extravasation Symptoms | 916 |
| CID 10044. Radiosensitive Organs | 917 |
| CID 10045. Radiopharmaceutical Patient State | 918 |
| CID 10046. GFR Measurements | 919 |
| CID 10047. GFR Measurement Methods | 919 |
| CID 10050. Summary Radiation Exposure Quantities | 919 |
| CID 10060. Organs for Radiation Dose Estimates | 920 |
| CID 10061. Absorbed Radiation Dose Types | 920 |
| CID 10062. Equivalent Radiation Dose Types | 920 |
| CID 10063. Radiation Dose Estimate Distribution Representation | 921 |
| CID 10064. Patient Model Type | 921 |
| CID 10065. Radiation Transport Model Type | 921 |
| CID 10066. Attenuator Category | 921 |
| CID 10067. Radiation Attenuator Materials | 922 |
| CID 10068. Estimate Method Types | 922 |
| CID 10069. Radiation Dose Estimation Parameter | 922 |
| CID 10070. Radiation Dose Types | 923 |
| CID 12001. Ultrasound Protocol Types | 923 |
| CID 12002. Ultrasound Protocol Stage Types | 924 |
| CID 12003. OB-GYN Dates | 924 |
| CID 12004. Fetal Biometry Ratios | 925 |
| CID 12005. Fetal Biometry Measurements | 925 |
| CID 12006. Fetal Long Bones Biometry Measurements | 926 |
| CID 12007. Fetal Cranium | 926 |
| CID 12008. OB-GYN Amniotic Sac | 926 |
| CID 12009. Early Gestation Biometry Measurements | 927 |
| CID 12011. Ultrasound Pelvis and Uterus | 927 |
| CID 12012. OB Equations and Tables | 927 |
| CID 12013. Gestational Age Equations and Tables | 927 |
| CID 12014. OB Fetal Body Weight Equations and Tables | 930 |
| CID 12015. Fetal Growth Equations and Tables | 931 |
| CID 12016. Estimated Fetal Weight Percentile Equations and Tables | 932 |
| CID 12017. Growth Distribution Rank | 933 |
| CID 12018. OB-GYN Summary | 933 |
| CID 12019. OB-GYN Fetus Summary | 933 |
| CID 12020. Fetal Biometry Anatomic Sites | 934 |
| CID 12021. Fetal Long Bone Anatomic Sites | 934 |
| CID 12022. Fetal Cranium Anatomic Sites | 934 |
| CID 12023. Pelvis and Uterus Anatomic Sites | 935 |
| CID 12030. Ultrasound Contrast/Bolus Agents | 935 |
| CID 12031. Protocol Interval Events | 935 |
| CID 12032. Transducer Scan Pattern | 936 |
| CID 12033. Ultrasound Transducer Geometry | 936 |
| CID 12034. Ultrasound Transducer Beam Steering | 936 |
| CID 12035. Ultrasound Transducer Application | 936 |
| CID 12101. Vascular Summary | 937 |
| CID 12102. Temporal Periods Relating to Procedure or Therapy | 937 |
| CID 12103. Vascular Ultrasound Anatomic Location | 937 |
| CID 12104. Extracranial Arteries | 938 |
| CID 12105. Intracranial Cerebral Vessels | 938 |
| CID 12106. Intracranial Cerebral Vessels (Unilateral) | 939 |

| | |
|--|-----|
| CID 12107. Upper Extremity Arteries | 939 |
| CID 12108. Upper Extremity Veins | 939 |
| CID 12109. Lower Extremity Arteries | 940 |
| CID 12110. Lower Extremity Veins | 940 |
| CID 12111. Abdominal Arteries (Lateral) | 941 |
| CID 12112. Abdominal Arteries (Unilateral) | 941 |
| CID 12113. Abdominal Veins (Lateral) | 942 |
| CID 12114. Abdominal Veins (Unilateral) | 942 |
| CID 12115. Renal Vessels | 943 |
| CID 12116. Vessel Segment Modifiers | 943 |
| CID 12117. Vessel Branch Modifiers | 944 |
| CID 12118. Measurement Orientation | 944 |
| CID 12119. Vascular Ultrasound Property | 944 |
| CID 12120. Blood Velocity Measurements by Ultrasound | 944 |
| CID 12121. Vascular Indices and Ratios | 945 |
| CID 12122. Other Vascular Properties | 945 |
| CID 12123. Carotid Ratios | 946 |
| CID 12124. Renal Ratios | 946 |
| CID 12140. Pelvic Vasculature Anatomical Location | 946 |
| CID 12141. Fetal Vasculature Anatomical Location | 946 |
| CID 12200. Echocardiography Left Ventricle | 947 |
| CID 12201. Left Ventricle Linear | 947 |
| CID 12202. Left Ventricle Volume | 948 |
| CID 12203. Left Ventricle Other | 948 |
| CID 12204. Echocardiography Right Ventricle | 948 |
| CID 12205. Echocardiography Left Atrium | 949 |
| CID 12206. Echocardiography Right Atrium | 949 |
| CID 12207. Echocardiography Mitral Valve | 949 |
| CID 12208. Echocardiography Tricuspid Valve | 950 |
| CID 12209. Echocardiography Pulmonic Valve | 950 |
| CID 12210. Echocardiography Pulmonary Artery | 951 |
| CID 12211. Echocardiography Aortic Valve | 951 |
| CID 12212. Echocardiography Aorta | 951 |
| CID 12214. Echocardiography Pulmonary Veins | 952 |
| CID 12215. Echocardiography Vena Cavae | 952 |
| CID 12216. Echocardiography Hepatic Veins | 953 |
| CID 12217. Echocardiography Cardiac Shunt | 953 |
| CID 12218. Echocardiography Congenital | 953 |
| CID 12219. Pulmonary Vein Modifiers | 953 |
| CID 12220. Echocardiography Common Measurements | 954 |
| CID 12221. Flow Direction | 954 |
| CID 12222. Orifice Flow Properties | 954 |
| CID 12223. Echocardiography Stroke Volume Origin | 955 |
| CID 12224. Ultrasound Image Modes | 955 |
| CID 12226. Echocardiography Image View | 956 |
| CID 12227. Echocardiography Measurement Method | 957 |
| CID 12228. Echocardiography Volume Methods | 957 |
| CID 12229. Echocardiography Area Methods | 958 |
| CID 12230. Gradient Methods | 958 |
| CID 12231. Volume Flow Methods | 958 |
| CID 12232. Myocardium Mass Methods | 958 |
| CID 12233. Cardiac Phase | 959 |
| CID 12234. Respiration State | 959 |
| CID 12235. Mitral Valve Anatomic Sites | 959 |
| CID 12236. Echo Anatomic Sites | 960 |
| CID 12237. Echocardiography Anatomic Site Modifiers | 960 |
| CID 12238. Wall Motion Scoring Schemes | 960 |
| CID 12239. Cardiac Output Properties | 960 |
| CID 12240. Left Ventricle Area | 961 |
| CID 12241. Tricuspid Valve Finding Sites | 961 |

| | |
|---|-----|
| CID 12242. Aortic Valve Finding Sites | 961 |
| CID 12243. Left Ventricle Finding Sites | 961 |
| CID 12244. Congenital Finding Sites | 962 |
| CID 12245. Cardiac Ultrasound Report Titles | 962 |
| CID 12246. Cardiac Ultrasound Indication for Study | 962 |
| CID 12247. Pediatric, Fetal and Congenital Cardiac Surgical Interventions | 963 |
| CID 12248. Cardiac Ultrasound Summary Codes | 964 |
| CID 12249. Cardiac Ultrasound Fetal Summary Codes | 965 |
| CID 12250. Cardiac Ultrasound Common Linear Measurements | 965 |
| CID 12251. Cardiac Ultrasound Linear Valve Measurements | 965 |
| CID 12252. Cardiac Ultrasound Cardiac Function | 966 |
| CID 12253. Cardiac Ultrasound Area Measurements | 966 |
| CID 12254. Cardiac Ultrasound Hemodynamic Measurements | 966 |
| CID 12255. Cardiac Ultrasound Myocardium Measurements | 967 |
| CID 12257. Cardiac Ultrasound Left Ventricle | 967 |
| CID 12258. Cardiac Ultrasound Right Ventricle | 968 |
| CID 12259. Cardiac Ultrasound Ventricles Measurements | 968 |
| CID 12260. Cardiac Ultrasound Pulmonary Artery | 968 |
| CID 12261. Cardiac Ultrasound Pulmonary Vein | 969 |
| CID 12262. Cardiac Ultrasound Pulmonary Valve | 969 |
| CID 12263. Cardiac Ultrasound Venous Return Pulmonary Measurements | 970 |
| CID 12264. Cardiac Ultrasound Venous Return Systemic Measurements | 970 |
| CID 12265. Cardiac Ultrasound Atria and Atrial Septum Measurements | 970 |
| CID 12266. Cardiac Ultrasound Mitral Valve | 970 |
| CID 12267. Cardiac Ultrasound Tricuspid Valve | 971 |
| CID 12268. Cardiac Ultrasound Atrioventricular Valves Measurements | 971 |
| CID 12269. Cardiac Ultrasound Interventricular Septum Measurements | 972 |
| CID 12270. Cardiac Ultrasound Aortic Valve | 972 |
| CID 12271. Cardiac Ultrasound Outflow Tracts Measurements | 972 |
| CID 12272. Cardiac Ultrasound Semilunar Valves, Annulate and Sinuses Measurements | 972 |
| CID 12273. Cardiac Ultrasound Aortic Sinotubular Junction | 973 |
| CID 12274. Cardiac Ultrasound Aorta Measurements | 973 |
| CID 12275. Cardiac Ultrasound Coronary Arteries Measurements | 973 |
| CID 12276. Cardiac Ultrasound Aorto Pulmonary Connections Measurements | 973 |
| CID 12277. Cardiac Ultrasound Pericardium and Pleura Measurements | 974 |
| CID 12279. Cardiac Ultrasound Fetal General Measurements | 974 |
| CID 12280. Cardiac Ultrasound Target Sites | 975 |
| CID 12281. Cardiac Ultrasound Target Site Modifiers | 975 |
| CID 12282. Cardiac Ultrasound Venous Return Systemic Finding Sites | 976 |
| CID 12283. Cardiac Ultrasound Venous Return Pulmonary Finding Sites | 976 |
| CID 12284. Cardiac Ultrasound Atria and Atrial Septum Finding Sites | 977 |
| CID 12285. Cardiac Ultrasound Atrioventricular Valves Finding Sites | 977 |
| CID 12286. Cardiac Ultrasound Interventricular Septum Finding Sites | 977 |
| CID 12287. Cardiac Ultrasound Ventricles Finding Sites | 978 |
| CID 12288. Cardiac Ultrasound Outflow Tracts Finding Sites | 978 |
| CID 12289. Cardiac Ultrasound Semilunar Valves, Annulus and Sinuses Finding Sites | 978 |
| CID 12290. Cardiac Ultrasound Pulmonary Arteries Finding Sites | 979 |
| CID 12291. Cardiac Ultrasound Aorta Finding Sites | 979 |
| CID 12292. Cardiac Ultrasound Coronary Arteries Finding Sites | 980 |
| CID 12293. Cardiac Ultrasound Aortopulmonary Connections Finding Sites | 980 |
| CID 12294. Cardiac Ultrasound Pericardium and Pleura Finding Sites | 980 |
| CID 12300. Core Echo Measurements | 981 |
| CID 12301. Measurement Selection Reasons | 988 |
| CID 12302. Echo Finding Observation Types | 988 |
| CID 12303. Echo Measurement Types | 989 |
| CID 12304. Echo Measured Properties | 989 |
| CID 12305. Basic Echo Anatomic Sites | 990 |
| CID 12306. Echo Flow Directions | 992 |
| CID 12307. Cardiac Phases and Time Points | 992 |
| TID 3401. ECG Acquisition Context | 993 |

| | |
|--|-------------|
| TID 3403. Catheterization Acquisition Context | 993 |
| TID 3450. Cardiac Electrophysiology Acquisition Context | 994 |
| TID 3460. Projection Radiography Acquisition Context | 994 |
| TID 3470. NM/PET Acquisition Context | 994 |
| TID 3471. PET Covariates Acquisition Context | 995 |
| TID 8001. Specimen Preparation | 995 |
| TID 8002. Specimen Sampling | 996 |
| TID 8003. Specimen Staining | 997 |
| TID 8004. Specimen Localization | 997 |
| TID 8010. Slide Imaging Parameters | 998 |
| TID 8200. Radiology Reading Task Parameters | 998 |
| TID 15100. Contrast Agent/Pre-Medication Protocol Context | 999 |
| TID 15101. NM/PET Protocol Context | 999 |
| TID 15200. JJ1017 Protocol Context | 1000 |
| D-1. DICOM Controlled Terminology Definitions | 1001 |
| E-1. French Language Meanings of Selected Codes | 1165 |
| E-2. Mapping of Pathology Codes used in DICOM to ADICAP | 1194 |
| F-1. Japanese Language Meanings of Selected Codes | 1197 |
| G-1. English Code Meanings of Selected Codes | 1209 |
| H-1. Code Meanings of LOINC Codes | 1217 |
| I-1. Examples of the Common Nomenclature for the Type of Endoscopy Performed | 1227 |
| J-1. SNOMED Codes Retired from DICOM Use | 1229 |
| J-2. SNOMED Synonyms Retired from DICOM Use | 1244 |
| L-1. Corresponding SNOMED Terms for Human Use | 1247 |
| L-2. Corresponding SNOMED Terms for Large Animals | 1255 |
| L-3. Corresponding Codes for Small Animal Use | 1257 |
| L-4. Correspondence between Animal-specific and Generic NCI Thesaurus Codes | 1259 |
| M-1. German Language Meanings of Selected Codes | 1263 |
| N.1-1. HL7 Value Sets | 1265 |
| N.1.1-1. ActPriority Value Set | 1265 |
| N.1.2-1. AdministrativeGender Value Set | 1266 |
| N.1.3-1. ImageMediaType Value Set | 1266 |
| N.1.4-1. NullFlavor Value Set | 1266 |
| N.1.5-1. ObservationInterpretation Value Set | 1267 |
| N.1.6-1. x_BasicConfidentialityKind Value Set | 1267 |
| N.1.7-1. x_serviceEventPerformer Value Set | 1267 |
| N.2-1. LOINC Value Sets | 1268 |
| N.2.1-1. LOINC Imaging Document Codes (examples) | 1268 |
| N.2.2-1. LOINC Y/N/NA | 1268 |

Notice and Disclaimer

The information in this publication was considered technically sound by the consensus of persons engaged in the development and approval of the document at the time it was developed. Consensus does not necessarily mean that there is unanimous agreement among every person participating in the development of this document.

NEMA standards and guideline publications, of which the document contained herein is one, are developed through a voluntary consensus standards development process. This process brings together volunteers and/or seeks out the views of persons who have an interest in the topic covered by this publication. While NEMA administers the process and establishes rules to promote fairness in the development of consensus, it does not write the document and it does not independently test, evaluate, or verify the accuracy or completeness of any information or the soundness of any judgments contained in its standards and guideline publications.

NEMA disclaims liability for any personal injury, property, or other damages of any nature whatsoever, whether special, indirect, consequential, or compensatory, directly or indirectly resulting from the publication, use of, application, or reliance on this document. NEMA disclaims and makes no guaranty or warranty, expressed or implied, as to the accuracy or completeness of any information published herein, and disclaims and makes no warranty that the information in this document will fulfill any of your particular purposes or needs. NEMA does not undertake to guarantee the performance of any individual manufacturer or seller's products or services by virtue of this standard or guide.

In publishing and making this document available, NEMA is not undertaking to render professional or other services for or on behalf of any person or entity, nor is NEMA undertaking to perform any duty owed by any person or entity to someone else. Anyone using this document should rely on his or her own independent judgment or, as appropriate, seek the advice of a competent professional in determining the exercise of reasonable care in any given circumstances. Information and other standards on the topic covered by this publication may be available from other sources, which the user may wish to consult for additional views or information not covered by this publication.

NEMA has no power, nor does it undertake to police or enforce compliance with the contents of this document. NEMA does not certify, test, or inspect products, designs, or installations for safety or health purposes. Any certification or other statement of compliance with any health or safety-related information in this document shall not be attributable to NEMA and is solely the responsibility of the certifier or maker of the statement.

Foreword

This DICOM Standard was developed according to the procedures of the DICOM Standards Committee.

The DICOM Standard is structured as a multi-part document using the guidelines established in [ISO/IEC Directives, Part 2].

PS3.1 should be used as the base reference for the current parts of this standard.

DICOM® is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information, all rights reserved.

HL7® and CDA® are the registered trademarks of Health Level Seven International, all rights reserved.

SNOMED®, SNOMED Clinical Terms®, SNOMED CT® are the registered trademarks of the International Health Terminology Standards Development Organisation (IHTSDO), all rights reserved.

LOINC® is the registered trademark of Regenstrief Institute, Inc, all rights reserved.

1 Scope and Field of Application

This part of the DICOM Standard specifies the DICOM Content Mapping Resource (DCMR), which defines the Templates and context groups used elsewhere in the standard.

2 Normative References

The following standards contain provisions that, through reference in this text, constitute provisions of this Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibilities of applying the most recent editions of the standards indicated below.

2.1 General

[ASTM E 1762-04] ASTM. . *Standard Guide for Electronic Authentication of Health Care Information*, ASTM International.

[ASTM E 2084-00] ASTM. . *Standard Specification for Authentication of Healthcare Information Using Digital Signatures*, ASTM International.

[AAPM Report 204] American Association of Physicists in Medicine, College Park, Maryland. 2011. *Size-Specific Dose Estimates (SSDE) in Pediatric and Adult Body CT Examinations*. http://www.aapm.org/pubs/reports/RPT_204.pdf .

[AAPM Report 220] American Association of Physicists in Medicine. September 2014. *Report of AAPM Task Group 220 - Use of Water Equivalent Diameter for Calculating Patient Size and Size-Specific Dose Estimates (SSDE) in CT*. http://www.aapm.org/pubs/reports/rpt_220.pdf .

[AAPM OR 03] American Association of Physicists in Medicine. 2005. *Assessment of Display Performance for Medical Imaging Systems*. http://www.aapm.org/pubs/reports/OR_03.pdf .

[DIN 6868-57] Deutsches Institut für Normung. 2001. *Image quality assurance in diagnostic X-ray departments - Acceptance testing for image display devices*.

[ETDRS Report Number 10] ETDRS. . *Report Number 10, Grading Diabetic Retinopathy from Stereoscopic Color Fundus Photographs- An Extension of the Modified Airlie House Classification*. *Ophthalmology*, May 1991, vol98 (p786-805), Supplement.

[HL7 v3 CMET] HL7. . *Version 3 Standard: Common Message Element Types*.

[IEC 60601-2-44] IEC. . *Medical Electrical Equipment - Part 2-44: Particular Requirements for the Safety of X-Ray Equipment for Computed Tomography*.

[IEC 61217] IEC. 2011. Ed 2.0. *Radiotherapy Equipment - Coordinates, Movements and Scales*.

[IEC 62563-1] IEC. 2009. Ed 1.0. *Medical Electrical Equipment - Medical image display systems - Part 1: Evaluation methods*.

[ISO/IEC Directives, Part 2] ISO/IEC. . ~~6:07.0~~. *Rules for the structure and drafting of International Standards*. http://www.iec.ch/members_experts/refdocs/iec/isoiecdir-2%7Bed7.0%7Den.pdf .

[ISO 639] ISO. . *Codes for the representation of names of languages*.

[ISO 639-1] ISO. 2002. *Codes for the representation of names of languages — Part 1: Alpha-2 code*.

[ISO 639-2] ISO. 1998. *Codes for the representation of names of languages — Part 2: Alpha-3 code*.

[ISO 639-3] ISO. 2007. *Codes for the representation of names of languages — Part 3: Alpha-3 code for comprehensive coverage of languages*.

[ISO 3166] ISO. . *Codes for the representation of names of countries*.

[ISO 3166-1] ISO. . *Codes for the representation of names of countries — Part 1: Country codes*.

[ISO 15924] ISO. 2004. *Codes for the representation of names of scripts*.

[JJ1017] Japan Medical Imaging and Radiological Systems Industries Association (JIRA) and Japanese Association of Healthcare Information Systems Industry (JAHIS). *Guidelines for HIS, RIS, PACS - Modality Data Communication on Scheduling, Billing, and Examination Records*.

Revision History

Revision 3.0

October 5, 2005

http://www.jira-net.or.jp/commission/system/04_information/files/JJ1017VER3_20051005.doc .

[NEMA XR 25-2010] National Electrical Manufacturers Association, Rosslyn, Virginia. 2010. *Computed Tomography Dose Check Standard*. <http://www.nema.org/stds/xr25.cfm> .

[RadLex] RSNA, Chicago. 2006. *A Lexicon for Uniform Indexing and Retrieval of Radiology Information Resources*. <http://www.radlex.org/> .

[RFC 1766] IETF. March 1995. *Tags for the Identification of Languages*.

[RFC 3066] IETF. January 2001. *Tags for the Identification of Languages*.

[RFC 4646] IETF. September 2006. *Tags for Identifying Languages*.

[RFC 4647] IETF. September 2006. *Matching of Language Tags*.

[RFC 5646] IETF. September 2009. *Tags for Identifying Languages*.

[SMPTE RP133] Society of Motion Picture and Television Engineers (SMPTE). 1991. *Specifications for Medical Diagnostic Imaging Test Pattern for Television Monitors and Hard-copy Recording Cameras*.

[Stout et al 2013] *Molecular Imaging*. Stout D, Berr SS, LeBlanc A, Kalen JD, Osborne D, Price J, Schiffer W, Kuntner C, and Wall J. 2013. 12. 7. 1-15. "Guidance for Methods Descriptions Used in Preclinical Imaging Papers". <http://mi.deckerpublishing.com/index.php/article/guidance-for-methods-descriptions-used-in-preclinical-imaging-papers> .

2.2 BI-RADS® Terminology and Nomenclature

A portion of the terminology used within the Mammography CAD SR SOP Class and the Breast Imaging Report and Relevant Patient Information for Breast Imaging Templates is derived from BI-RADS®, a copyrighted lexicon of breast imaging terminology and nomenclature licensed by DICOM from the American College of Radiology.

[BI-RADS®] American College of Radiology, Reston, Virginia. 1998. 3.0. *Breast Imaging Reporting and Data System Atlas*. <http://www.acr.org/Quality-Safety/Resources/BIRADS> .

2.3 MQCM 1999 Terminology and Nomenclature

References to MQCM 1999 are made in the description of the Mammography CAD SR SOP Class. In this MQCM 1999 refers to the Mammography Quality Control Manual 1999, available from the American College of Radiology. This document describes a standardized approach to mammographic acquisition standards, patient positioning, and so on. The DICOM standard does not require Mammography CAD SR SOP Class implementations to adhere to MQCM 1999.

[MQCM] American College of Radiology, Reston, Virginia. 1999. *Mammography Quality Control Manual*. <http://www.acr.org/Education/Education-Catalog/Products/639> .

2.4 MQSA Terminology and Nomenclature

References to MQSA are made in the description of the Mammography CAD SR SOP Class. In this MQSA refers to the Mammography Quality Standards Act final rules. While MQSA is a federal regulation of the United States government, it provides the only widely published standards for mammographic quality and is incorporated in this document for that reason. The DICOM standard does not require Mammography CAD SR SOP Class implementations to adhere to MQSA.

[MQSA] U.S. Food and Drug Administration, Silver Spring, Maryland. 2002. *Mammography Quality Standards Act Regulations*. <http://www.fda.gov/Radiation-EmittingProducts/MammographyQualityStandardsActandProgram/Regulations/ucm110906.htm> .

2.5 ACR Position Statement

[ACR Position Statement] American College of Radiology, Reston, Virginia. 2001. *Quality Control and Improvement, Safety, Infection Control, and Patient Education*. <http://www.acr.org/Quality-Safety/Radiology-Safety> .

2.6 Chest Radiology and CT

References are made in the description of the Chest CAD SR Templates and context groups.

[Fraser and Pare] Fraser, Muller, Colman, and Pare. 1999. 4th. I. xvii-xxxi. *Diagnosis of Diseases of the Chest*. Terms Used in Chest Radiology.

[Fraser and Pare] Fraser, Muller, Colman, and Pare. 1999. 4th. I. xxxiii-xxxvi. *Diagnosis of Diseases of the Chest*. Terms for CT of the Lungs.

[ACR CT PE] American College of Radiology, Reston, Virginia. 2001. 109-113. *ACR Standards*. ACR Standard for the Performance of Computed Tomography for the Detection of Pulmonary Embolism in Adults.

[ACR HR CT] American College of Radiology, Reston, Virginia. 2001. 115-118. *ACR Standards*. ACR Standard for the Performance of High-Resolution Computed Tomography (HRCT) of the Lungs in Adults.

[ACR Radiography] American College of Radiology, Reston, Virginia. 2001. 95-98. *ACR Standards*. ACR Standard for the Performance of Pediatric and Adult Chest Radiography.

[ACR Thoracic CT] American College of Radiology, Reston, Virginia. 2001. 103-107. *ACR Standards*. ACR Standard for the Performance of Pediatric and Adult Thoracic Computed Tomography (CT).

2.7 Response Evaluation Criteria

References to Response Evaluation Criteria are made from the Chest CAD SR Templates and context groups

[RECIST] *Journal of the National Cancer Institute*. Therasse. February 2, 2000. 92. 3. 205-216. "New Guidelines to Evaluate the Response to Treatment in Solid Tumors". <http://www.eortc.be/recist/>.

[WHO] World Health Organization, Geneva. 1979. *WHO Handbook for Reporting Results for Cancer Treatment*. WHO Offset Publication No. 48. <http://whqlibdoc.who.int/publications/9241700483.pdf>.

2.8 Myocardial Segmentation

[Cerqueira 2002] *Circulation*. Cerqueira MD. 2002. 105. 4. 539. "AHA Scientific Statement: Standardized Myocardial Segmentation and Nomenclature for Tomographic Imaging of the Heart". 10.1161/hc0402.102975.

2.9 Quantitation of the Left Ventricle

[Schiller 1989] *Journal of the American Society of Echocardiography*. Schiller. Oct 1989. 2. 5. 358-367. "Recommendations for Quantitation of the Left Ventricle by Two-Dimensional Echocardiography".

2.10 Cancer Staging

[AJCC] American Joint Committee on Cancer. 2002. Sixth. *AJCC Cancer Staging Handbook: From the AJCC Cancer Staging Manual*. Springer-Verlag. 0-387-95270-5.

2.11 Quantitative Arteriography and Ventriculography

[Sheehan, 1986] *Circulation*. Sheehan FH, Bolson EL, Dodge HT, Mathey DG, Schofer J, and Woo HW. 1986. 74. 2. 293-305. "Advantages and applications of the centerline method for characterizing regional ventricular function". 10.1161/01.CIR.74.2.293.

[Slager, 1986] *J Am Coll Cardiol.* Slager CJ, Hooghoudt TE, Serruys PW, Schuurbiens JC, Reiber JH, Meester GT, Verdouw PD, and Hugenholtz PG. 1986. 6. 2. 317-26. "Quantitative assessment of regional left ventricular motion using endocardial landmarks". 10.1016/S0735-1097(86)80498-3.

[Kennedy, 1970] *Am Heart J*. Kennedy JW, Trenholme SE, and Kasser IS. 1970. 80. 3. 343. "Left ventricular volume and mass from single-plane cineangiogram. A comparison of anteroposterior and right anterior oblique methods".

- [Dodge, 1960] *Am Heart J*. Dodge HT, Sandler H, Ballew DW, and Lord JD. 1960. 60. 5. 762. "The use of biplane angiocardiology for the measurement of left ventricular volume in man". <http://www.sciencedirect.com/science/article/pii/0002870360903598>.
- [Wynne, 1978] *Am J Cardiol*. Wynne J, Green LH, Mann T, Levin D, and Grossman W. 1978. 41. 4. 726. "Estimation of left ventricular volumes in man from biplane cineangiograms filmed in oblique projections".
- [Boak, 1977] *Cathet Cardiovasc Diagn*. Boak, JG, Bove AA, Kreulen T, and Spann JF. 1977. 3. 3. 217-30. "A geometric basis for calculation of right ventricular volume in man". 10.1002/ccd.1810030305.
- [Ferlinz, 1977] *Am Heart J*. Ferlinz J. 1977. 94. 1. 87-90. "Measurements of right ventricular volumes in man from single plane cineangiograms. A comparison to the biplane approach". <http://www.sciencedirect.com/science/article/pii/S0002870377803487>.
- [Graham, 1973] *Circulation*. Graham TP, Jarmakani JM, Atwood GF, and Canent RV. 1973. 47. 1. 144-53. "Right ventricular volume determinations in children. Normal values and observations with volume or pressure overload". 10.1161/01.CIR.47.1.144.
- [Arcilla, 1971] *Chest*. Arcilla RA, Tsai P, Thilenius O, and Ranniger K. 1971. 60. 5. 446. "Angiographic method for volume estimation of right and left ventricles". 10.1378/chest.60.5.446.

2.12 IVUS

- [Mintz, 2001] *Journal of the American College of Cardiology*. Mintz GS. 2001. 37. 5. 1478-1492. "American College of Cardiology Clinical Expert Consensus Document on Standards for Acquisition, Measurement and Reporting of Intravascular Ultrasound Studies (IVUS)". 10.1016/S0735-1097(01)01175-5.
- [Di Mario, 1998] *European Heart Journal*. Di Mario C. 1998. 19. 2. 207-229. "Clinical Application and Image Interpretation in Intravascular Ultrasound". 10.1053/euhj.1996.0433.
- [Tobis and Yock] Tobis JM and Yock PC. 1992. *Intravascular Ultrasound Imaging*. 0443088098.

2.13 C-RADS CT Colonography Reporting and Data System

- [Zalis, 2005] *Radiology*. Zalis ME. 2005. 236. 1. 3-9. "CT Colonography Reporting and Data System: A Consensus Proposal". 10.1148/radiol.2361041926.

2.14 Implants

- [Eggl, 1998] *J Bone Joint Surg Br*. Eggl S, Pisan M, and Müller ME. 1998. 80-B. 3. 382-390. "The value of preoperative planning for total hip arthroplasty". <http://www.bjj.boneandjoint.org.uk/content/80-B/3/382>.

2.15 LOINC

- [LOINC] Regenstrief Institute, Indianapolis. 2014. *Logical Observation Identifier Names and Codes*. <http://loinc.org/>.

This product includes all or a portion of the LOINC® table, LOINC panels and forms file, LOINC document ontology file, and/or LOINC hierarchies file, or is derived from one or more of the foregoing, subject to a license from Regenstrief Institute, Inc. Your use of the LOINC table, LOINC codes, LOINC panels and forms file, LOINC document ontology file, and LOINC hierarchies file also is subject to this license, a copy of which is available at <http://loinc.org/terms-of-use>. The current complete LOINC table, LOINC Users' Guide, LOINC panels and forms file, LOINC document ontology file, and LOINC hierarchies file are available for download at <http://loinc.org/>. The LOINC table and LOINC codes are copyright © 1995-2014, Regenstrief Institute, Inc. and the Logical Observation Identifiers Names and Codes (LOINC) Committee. The LOINC panels and forms file, LOINC document ontology file, and LOINC hierarchies file are copyright © 1995-2014, Regenstrief Institute, Inc. All rights reserved.

The LOINC table (in all formats), LOINC panels and forms file, LOINC document ontology file, and LOINC hierarchies are provided "as is." Any express or implied warranties are disclaimed, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

A small portion of the LOINC table may include content (e.g., survey instruments) that is subject to copyrights owned by third parties. Such content has been mapped to LOINC terms under applicable copyright and terms of use. Notice of such third party copyright and license terms would need to be included if such content is included.

2.16 UCUM

[UCUM] Regenstrief Institute, Indianapolis. 2013. *Unified Code for Units of Measure*. <http://unitsofmeasure.org/>.

This product includes all or a portion of the UCUM table, UCUM codes, and UCUM definitions or is derived from it, subject to a license from Regenstrief Institute, Inc. and The UCUM Organization. Your use of the UCUM table, UCUM codes, UCUM definitions also is subject to this license, a copy of which is available at <http://unitsofmeasure.org/>. The current complete UCUM table, UCUM Specification are available for download at <http://unitsofmeasure.org/>. The UCUM table and UCUM codes are copyright © 1995-2013, Regenstrief Institute, Inc. and the Unified Codes for Units of Measures (UCUM) Organization. All rights reserved.

The UCUM table (in all formats), UCUM definitions, and specification are provided "as is." Any express or implied warranties are disclaimed, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

2.17 Anesthesia Quality Institute Schema

[AQI Schema] Anesthesia Quality Institute, Schaumburg, IL. 2015/07/30. *Anesthesia Quality Institute Schema*. <http://www.aqihq.org/aqischdoc/default.html>.

Used by permission of the Anesthesia Quality Institute (AQI) (<http://www.aqihq.org/>), established by the American Society of Anesthesiologists (ASA).

2.18 Point-of-Care Medical Device Nomenclature

Extracts of ISO/IEEE 11073 reprinted by permission of IEEE, 3 Park Avenue, New York, NY 10016-5997 USA. Copyright by IEEE. <http://standards.ieee.org/>.

Under license from IEEE, the term codes and descriptions of the ISO/IEEE 11073 Nomenclature are available at no cost through the Rosetta Terminology Mapping Management System of the U.S. National Institute of Standards and Technology. <http://hit-testing.nist.gov:13110/rtmms/index.htm>

[ISO/IEEE 11073-10101] ISO/IEEE. 2004. . *Health informatics - Point-of-care medical device communication - Nomenclature*.

[ISO/IEEE 11073-10101a] ISO/IEEE. 2015. . *Health informatics - Point-of-care medical device communication - Nomenclature Amendment 1: Additional Definitions*.

[ISO/IEEE 11073-10102] ISO/IEEE. 2015. . *Health informatics - Point-of-care medical device communication - Annotated ECG - Nomenclature*.

2.19 SNOMED Clinical Terms

This DICOM Standard incorporates SNOMED CT®, used by permission of the International Health Terminology Standards Development Organisation (IHTSDO). SNOMED CT®, was originally created by The College of American Pathologists (CAP). SNOMED CT® is a registered trademark of the International Health Terminology Standards Development Organisation, all rights reserved.

The SNOMED CT terms used in this Standard (the SNOMED CT DICOM Subset) are the subject of a licensing agreement between NEMA and IHTSDO that allows the use of this defined subset in DICOM conformant applications without further license or payment of fee. Any use of SNOMED CT beyond the terms published in the DICOM Standard is subject to SNOMED CT licensing rules, which may include a fee. For further information about SNOMED CT licensing, go to <http://www.ihtsdo.org/snomed-ct/get-snomed-ct> or contact IHTSDO at <mailto:info@ihtsdo.org>.

This DICOM Standard incorporates various veterinary terms from the SNOMED CT VetSCT extension, used by permission of the Veterinary Terminology Services Laboratory (VTSI) (<http://vtsi.vetmed.vt.edu/>). These terms were previously included in SNOMED CT but have since been inactivated as moved elsewhere.

[SNOMED] International Health Terminology Standards Development Organisation (IHTSDO). . *SNOMED CT Systematized Nomenclature of Medicine - Clinical Terms*.

2.20 Prostate Reporting Terminology and Nomenclature

The Prostate Imaging and Report and Data System Version 2 (PI-RADS v2) is a joint effort of the European Society of Urogenital Radiology, the American College of Radiology and the AdMetech Foundation.

[PI-RADS v2] *Eur Urol.* Weinreb JC, Barentsz JO, Choyke PL, Cornud F, Haider MA, Macura KJ, Margolis D, Schnall MD, Shtern F, Tempany CM., Thoeny HC, and Verma S. 2016/01. 69. 1. 16-40. "PI-RADS Prostate Imaging - Reporting and Data System: 2015, Version 2". 10.1016/j.eururo.2015.08.052. <http://www.europeanurology.com/article/S0302-2838%2815%2900848-9/> .

Note

PI-RADS is also available from the following sources:

- American College of Radiology: <http://www.acr.org/~media/ACR/Documents/PDF/QualitySafety/Resources/PIRADS/PIRADS%20V2.pdf>

[Prostate Eu Consensus] *Eur Urol.* Dickinson L, Ahmed HU., Allen C, Barentsz JO, Carey B, Futterer JJ, Heijmink SW, Hoskin PJ, Kirkham A, and Padhani AR. 2011. 59. 4. 477–94. "Magnetic resonance imaging for the detection, localisation, and characterisation of prostate cancer: recommendations from a European consensus meeting". 10.1016/j.eururo.2010.12.009. [http://www.europeanurology.com/article/S0302-2838\(10\)01187-5/](http://www.europeanurology.com/article/S0302-2838(10)01187-5/) .

[ESUR Guidelines] *Eur Radiol.* Barentsz JO, Richenberg J, Clements R, Choyke P, Verma S, Villeirs G, Rouviere O, Logager V, and Fütterer JJ. 2012/04. 22. 4. 746–57. "ESUR prostate MR guidelines 2012". 10.1007/s00330-011-2377-y. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3297750/> .

3 Definitions

For the purposes of this Standard the following definitions apply.

3.1 Codes and Controlled Terminology Definitions:

The following definitions are commonly used in this Part of the DICOM Standard:

| | |
|--|---|
| Baseline Context Group Identifier (BCID) | Identifier that specifies the suggested Context Group for a Code Sequence Attribute. See Table 5.6-1 "Conventions for Specification of Context Groups" in PS3.3. |
| Defined Context Group Identifier (DCID) | Identifier that specifies the Context Group for a Code Sequence Attribute that shall be used. See Table 5.6-1 "Conventions for Specification of Context Groups" in PS3.3. |
| Extensible Context Group | Context Group that may be extended by a particular application by inclusion of additional concepts. See Table 5.6-1 "Conventions for Specification of Context Groups" in PS3.3. |
| Non-Extensible Context Group | Context Group whose defined set of concepts shall not be extended by an application. See Table 5.6-1 "Conventions for Specification of Context Groups" in PS3.3. |
| Context Group | A set of coded concepts defined by a Mapping Resource forming a set appropriate to use in a particular context. |
| Context Group Version | Version of a Context Group. |
| Context ID (CID) | Identifier of a Context Group. |
| Mapping Resource | A resource that defines context-dependent usage constraints (i.e., Value Set or Relationship Type restrictions) for Attributes. A resource that specifies the mapping of the content of an external controlled terminology to the components of a message standard. |
| Relationship Type | The association between two Concepts. Examples: "HAS PROPERTIES", "CONTAINS", "INFERRED FROM". |
| DICOM Content Mapping Resource (DCMR) | A Mapping Resource that defines Templates and Context Groups for use in DICOM IODs. |
| Template | A pattern that describes the Content Items, Value Types, Relationship Types and Value Sets that may be used in part of a Structured Report content tree, or in other Content Item constructs, such as Acquisition Context or Protocol Context. Analogous to a Module of an Information Object Definition. |
| Template ID (TID) | Identifier of a Template. |
| Value Set | The allowed values of a Code Sequence Attribute in a given context. Specified either as one or more individual values or by reference to a Context Group. |
| Baseline Template Identifier (BTID) | Identifier that specifies a Template suggested to be used in the creation of a set of Content Items. |
| Defined Template Identifier (DTID) | Identifier that specifies a Template that shall be used in the creation of a set of Content Items. |
| Extensible Template | A Template that may be extended by a particular application by inclusion of additional Content Items beyond those specified in the Template. |

| | |
|-------------------------|--|
| Non-Extensible Template | A Template that specifies the exact set of Content Items and corresponding Value Sets that shall be used and that shall not be extended by an application. |
| Root Template | A Template whose first content item is a CONTAINER content item intended to be encoded in the top level Data Set of a SOP Instance. I.e., the "root node" of the "content tree". |
| Coding schemes | Dictionaries (lexicons) of concepts (terms) with assigned codes and well defined meanings. |

Note

Examples of coding schemes include SNOMED and LOINC.

3.2 Information Object Definitions:

This Part of the Standard makes use of the following terms defined in PS3.3:

| | |
|-------------------------|------------|
| Code Sequence Attribute | See PS3.3. |
|-------------------------|------------|

4 Symbols and Abbreviations

The following symbols and abbreviations are used in this Part of the Standard.

| | |
|------------------------|--|
| Mammography CAD | Computer-Aided Detection and/or Computer-Aided Diagnosis for Mammography |
| Chest CAD | Computer-Aided Detection and/or Computer-Aided Diagnosis for chest radiography |
| Colon CAD | Computer-Aided Detection and/or Computer-Aided Diagnosis for colon radiography |
| ACR | American College of Radiology |
| ASE | American Society of Echocardiography |
| CAP | College of American Pathologists |
| DCMR | DICOM Content Mapping Resource |
| NEMA | National Electrical Manufacturers Association |
| RECIST | Response Evaluation Criteria In Solid Tumors |
| SNOMED | Systematized Nomenclature of Medicine |
| UCUM | Unified Code for Units of Measure |
| WHO | World Health Organization |
| EV | Enumerated Value |
| DT | Defined Term |
| CNAME | Context Group Name |
| TNAME | Template Name |
| BCID | Baseline Context Group ID |
| DCID | Defined Context Group ID |
| ECID | Enumerated Context Group ID |
| BTID | Baseline Template ID |
| DTID | Defined Template ID |
| ETID | Enumerated Template ID |

The following upper-case abbreviations represent specific Attributes:

| | |
|------------|---|
| CV | Code Value (0008,0100) or Long Code Value (0008,0119) or URN Code Value (0008,0120) |
| CSD | Coding Scheme Designator (0008,0102) |
| CM | Code Meaning (0008,0104) |
| CSV | Coding Scheme Version (0008,0103) |

5 Conventions

Terms listed in Section 3 are capitalized throughout the document.

6 Form of Template Specifications

Templates are patterns that specify the Concept Names, Requirements, Conditions, Value Types, Value Multiplicity, Value Set restrictions, Relationship Types and other attributes of Content Items for a particular application.

An IOD may specify that particular Standard Templates shall be used or may be used to define or constrain the content of a Content Item construct. A Content Item construct includes a coded concept name and one of several types of coded values. Content Item constructs are used in:

- the main Data Set and recursively nested Content Sequences (0040,A730) of the SR Document Content Module
- the Acquisition Context Sequence(0040,0555) of the Acquisition Context Module,
- the Protocol Context Sequence (0040,0440) and Content Item Modifier Sequence (0040,0441) of the Scheduled Procedure Step Module, Image Acquisition Results Module, and others.
- the Specimen Preparation Step Content Item Sequence (0040,0612) of the Specimen Module.

Annexes A and C of this Part define Standard Templates.

Note

Standard Extended and Private Templates may be defined by implementers of the Standard. The rules for definition of Standard Extended and Private SR Templates are similar to the rules for definition of Standard Extended and Private SOP Classes. One row of a Template definition table corresponds to one row of a Module table.

Each Standard Template is specified by a Template table in this Part. Each Template table specifies exactly one Template, corresponding to a pattern of content within a Content Item construct.

Each Template table identifies whether the order of Content Items is significant or not significant. SOP Instances whose content is based on a Template where the order is significant shall encode the top level Content Items in the order they are specified in the Template, and the subsidiary Content Items under each parent item in the order they are specified, and so on for each Nesting Level. The significance of the order applies only to the Template itself; subsidiary included Templates may have a different order significance.

Note

Even if a Template specifies that the order is not significant, there may be significance to the order in which Content Items are encoded in a SOP Instance. For example, CONTAINER Content Items with attribute Continuity of Content (0040,A050) value CONTINUOUS encode Content Items in narrative sequence, and procedure logs encode Content Items in time order.

The Content Items from subsidiary Templates may be intermingled if and only if the parent and subsidiary all specify that the order is not significant. This permits later refactoring into reusable Templates.

The range of concepts and the options that are permitted in a family of SR Documents vary inversely with the level of constraint that is applied by the corresponding SR Template. The more narrow the range of concepts and the more restricted the options permitted by a Template, the more predictable the content of the SR Documents will be.

Note

1. A very specific Template defines a family of SR Documents that are very similar to each other. They have a narrow range of content options (e.g., high level of constraint of Content Item values; use of CODE or NUM with Enumerated Context Groups) and their content is therefore highly predictable. A very general (e.g., permissive or broad) Template defines a family of SR Documents that may differ considerably from one another. They have a broader range of content options (e.g., low level of constraint of Content Item values; use of TEXT and relatively little restriction of Content Item values) and their content is less predictable.
2. The degree of interoperability that may be achieved with a family of SR Documents generated from a Template may be determined intentionally and precisely at a desired level by appropriate Template design to achieve the necessary degree of predictability of SR Document contents.

6.1 Template Table Field Definition

SR Templates are described using tables of the following form:

Type: (Non-) Extensible
Order: (Non-) Significant
Root: Yes or No

Table TID <#>. <SR Context Template Name>

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|----|--------------|----|----------|-----------|----------------------|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |

Acquisition Context Templates are described using tables of the following form:

Type: (Non-) Extensible
Order: (Non-) Significant

Table TID <#>. <Acquisition Context Template Name>

| | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|--------------|----|----------|-----------|----------------------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |

Protocol Context Templates are described using tables of the following form:

Type: (Non-) Extensible
Order: (Non-) Significant

Table TID <#>. <Protocol Context Template Name>

| | NL | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|----|--------------|----|----------|-----------|----------------------|
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |

The semantics of the fields (columns) of Template tables are defined by subsections of this Section. A row of a Template table specifies either one Content Item or inclusion of another Template that may specify any number of Content Items (see Section 6.2.3 for definition of Included Templates). Each Template table is named by a title, identified by a TID number and further explained by a description such as explanation of Template contents, purpose and use cases.

The following conventions are defined for the form of references to coded concepts, Context Groups and Templates.

Code Meanings are enclosed in quotation marks (for example "cm"). Code Values and Coding Scheme Designators are not enclosed in quotation marks unless a comma occurs in the string.

References to coded concepts take the following form:

- EV or DT (CV, CSD, "CM")

e.g., an Enumerated Value with only CV, CSD, and CM defined is represented as follows: EV (CV, CSD, "CM"), for example EV (T-04000, SRT, "Breast").

- MemberOf { BCID or DCID (CID) CNAME } MemberOf selects one term from the specified context group.

If reference to a specific coding scheme version is required, it takes the following form:

- EV or DT (CV, CSD [CSV], "CM")

e.g., DT (D3-81922, SRT [V1], "Aortic fistula").

References to Context Groups take the following form:

- BCID or DCID (CID) CNAME

e.g., Defined Context Group 5000 is represented as follows: DCID (5000) Language.

References to Templates take the following form:

- BTID or DTID (TID) TNAME

e.g., Baseline Template 1000 is represented as follows: BTID (1000) Quotation.

6.1.1 Row Number

Each row of a Template Table is denoted by a row number. The first row is numbered 1 and subsequent rows are numbered in ascending order with increments of 1. This number denotes a row for convenient description as well as reference in conditions. The Row Number of a Content Item in a Template may or may not be the same as the ordinal position of the corresponding Sequence Item (representing the Content Item) in a Content Sequence (0040,A730), depending on the number of times the Content Item is repeated.

The Content Item specified in the first row of a Template table may be of any Value Type. Specifically, it is not constrained to be a CONTAINER.

6.1.2 Nesting Level (NL)

The nesting level of Content Items is denoted by ">" symbols, one per level of nesting below the initial Source Content Item (of the Template) in a manner similar to the depiction of nested Sequences of Items in Modules Tables in PS3.3. When it is necessary to specify the Target Content Item(s) of a relationship, they are specified in the row(s) immediately following the corresponding Source Content Item. The Nesting Level of a Target Content Item is one greater than the Nesting Level of the corresponding (parent) Source Content Item. The Content Item specified in row 1 of a Template Table is at the top level (i.e., no ">" symbol is ever present in the NL field for the first Content Item in the table).

Acquisition Context Templates have no Nesting Level field. Protocol Context and UPS Processing Parameter Templates allow a single Nesting Level implemented through the Content Item Modifier Sequence (see PS3.3).

6.1.3 Relationship With Source Content Item (Parent)

Relationship Type and Relationship Mode (i.e., By-value or By-reference) constraints, if defined, are specified in this field, as described Table 6.1.3-1.

Relationship Type and Mode are specified for each row that specifies a target Content Item.

Relationship Type and Mode may also be specified when another Template is included, either "top-down" or "bottom-up" or both (i.e., in the "INCLUDE Template" row of the calling Template, or in all rows of the included Template, or in both places). There shall be no conflict between the Relationship Type and Mode of a row that includes another Template and the Relationship Type and Mode of the rows of the included Template.

Note

SR IODs specify Enumerated Values for Relationship Types. If a Relationship Type other than one of the Defined Terms for Relationship Type (0040,A010) is specified in a Private SOP Class, there is a significant risk to interoperability. Documentation accompanying Templates for Private SOP Classes should define any Relationship-type extensions in the manner that the Standard Relationship Types are defined in PS3.3.

Acquisition Context and Protocol Context Templates have no Relationship field.

Table 6.1.3-1. Syntax of Relationship Constraints

| Expression | Definition |
|------------|---|
| RTYPE | Relationship Mode is By-value and Relationship Type is RTYPE. For example, "INFERRED FROM". |
| R-RTYPE | Relationship Mode is By-reference and Relationship Type is RTYPE. For example, "R-INFERRED FROM". |

6.1.4 Value Type (VT)

The Value Type field specifies the SR Value Type of the Content Item or conveys the word "INCLUDE" to indicate that another Template is to be included (substituted for the row). See Section 6.2.3 for further description of "Included Templates".

6.1.5 Concept Name

Any constraints on Concept Name are specified in this field as defined or enumerated coded entries, or as baseline or defined context groups. Alternatively, when the VT field is "INCLUDE", the Concept Name field specifies the Template to be included.

6.1.6 Value Multiplicity (VM)

The VM field indicates the number of times that either a Content Item of the specified pattern or an included Template may appear in this position. Table 6.1.6-1 specifies the values that are permitted in this field.

Table 6.1.6-1. Permitted Values for VM

| Expression | Definition |
|--|--|
| i (where 'i' represents an integer) | Exactly i occurrences, where $i \geq 1$. E.g., when $i=1$ there shall be one occurrence of the Content Item in this position. |
| i-j (where 'i' and 'j' represent integers) | From i to j occurrences, where i and j are ≥ 1 and $j > i$. |
| i-n (where 'i' and 'n' represent integers) | i or more occurrences, where $i \geq 1$. |

6.1.7 Requirement Type

The Requirement Type field specifies the requirements on the presence or absence of the Content Item or included Template.

Note

There is typically no need to specify Requirement Type separately for SCU and SCP of the Basic SR SOP Classes, because the SCP is required to support the entire content of any SR Document it receives. Therefore, for Basic SR SOP Classes, Requirement Type effectively only applies to the SCU.

The following symbols are used:

- M** Mandatory. Shall be present.
- MC** Mandatory Conditional. Shall be present if the specified condition is satisfied.
- U** User Option. May or may not be present.
- UC** User Option Conditional. May not be present. May be present according to the specified condition.

Note

There is an interaction between the VM and the Requirement Type with respect to the number of times that a Content Item (or included Template) may actually be present, as follows:

| Req Type | VM | Actual number of occurrences in the content tree |
|----------|-----|--|
| M | 1 | 1 |
| M | 1-n | 1 to n |
| U | 1 | 0 or 1 |

| Req Type | VM | Actual number of occurrences in the content tree |
|----------|-----|--|
| U | 1-n | 0 to n |

6.1.8 Condition

The Condition field specifies any conditions upon which presence or absence of the Content Item or its values depends. This field specifies any Concept Name(s) or Values upon which there are dependencies.

References in Condition statements to coded concepts or values, whether to select a Content Item to test or to specify a value to test against, are of the form (CV, CSD, "CM"). As is always the case for coded entries, the matching is performed against CV and CSD, irrespective of the string value of CM.

References may also be made to row numbers (e.g., to specify exclusive OR conditions that span multiple rows of a Template table).

The following abbreviations are used:

XOR Exclusive OR. One and only one row shall be selected from mutually-exclusive options.

Note

For example, if one of rows 1, 2, 3 or 4 may be included, then for row 2, the abbreviation "XOR rows 1, 3, 4" is specified for the condition.

IF Shall be present if the condition is TRUE; may be present otherwise.

IFF If and only if. Shall be present if the condition is TRUE; shall not be present otherwise.

6.1.9 Value Set Constraint

Value Set Constraints, if any, are specified in this field as defined or enumerated coded entries, or as baseline or defined context groups.

The Value Set Constraint column may specify a default value for the Content Item if the Content Item is not present, either as a fixed value, or by reference to another Content Item, or by reference to an Attribute from the data set other than within the Content Sequence (0040,A730).

6.1.9.1 NUM Units Constraint

Constraints on units of measurement, if any, are specified in the Value Set Constraint field if and only if the Value Type is NUM. The constraints are specified either as defined or enumerated coded entries, or as baseline or defined context groups.

6.1.9.2 CONTAINER Continuation Flag Constraint

The value of the Continuity of Content Flag (0040,A050) may be specified in the Value Set Constraint field if and only if the Value Type is CONTAINER.

Note

The SR Document Content Module specifies "SEPARATE" and "CONTINUOUS" as the Enumerated Values for Continuity of Content Flag (0040,A050).

6.1.9.3 SCOORD Graphic Type Constraint

Constraints on the value of the Graphic Type(0070,0023) may be specified in the Value Set Constraint field if and only if the Value Type is SCOORD. The constraint may specify a set of allowed values, or a set of disallowed values. For example:

- GRAPHIC TYPE = {POINT}
- GRAPHIC TYPE = {CIRCLE, ELLIPSE}
- GRAPHIC TYPE = not {MULTIPOINT}

6.2 Special Conventions for Template Tables

6.2.1 Multiple Value Sets Depending On Different Conditions

When a Content Item may have different value sets, each depending on different conditions, the description of each different case begins in a separate row of the Template Table.

6.2.2 Target Content Items of Relationships

When it is necessary to specify the Target Content Item(s) of a relationship, they are specified in the row(s) immediately following the Source Content Item. The Nesting level of a Target Content Item (or set of Target Content Items specified indirectly via an 'include Template' macro) is one greater than the Nesting Level of the corresponding Source Content Item, as indicated by an increase in the number of ">" characters in the nesting level.

When a Content Item may be the Source of multiple relationships having different Relationship Types and/or different Relationship Modes and/or different patterns of Target Content Item(s), the description of each different case begins in a separate row of the Template Table.

When the Source Content Item of a relationship has VM of greater than 1, the specified pattern of Target Content Items applies to all instantiations of the Source Content Item.

Note

For example, if a Template specifies that the VM of a Source Content Item is 1-n and specifies a By-value relationship to two CODE Content Items with particular value set constraints, then each instantiation of the Source Content Item has a By-value relationship to two CODE Content Items with the specified value constraints.

When a Source Content Item that has a Requirement Type of U, UC or MC is not present (is not instantiated), no Target Content Items of that Source Content Item are present, even if one or more of the Target Content Items is designated with a Requirement Type of M or MC.

Note

In other words, potential children are not present when there is no parent.

6.2.3 Inclusion of Templates

A Template may specify another Template to be included by specifying "INCLUDE" in the Value Type field and the identifier of the included Template in the Concept Name field. All of the rows of the specified Template are included in the invoking Template, effectively substituting the specified Template for the row where the inclusion is invoked. Whether or not the inclusion is user optional, mandatory or conditional is specified in the Requirement and Condition fields. The number of times the included Template may be repeated is specified in the VM field.

6.2.3.1 Template Parameters

A Template that is included by another Template may include parameters that are replaced by values defined in the invoking Template. Parameters may be used to specify coded concepts or Context Groups in the Concept Name, Condition, or Value Set Constraint fields of a Template.

An included Template that accepts parameters shall be introduced by a table listing those parameters of the form:

| Parameter Name | Parameter Usage |
|----------------|-----------------|
| ... | ... |
| ... | ... |

Parameters are indicated by a name beginning with the character "\$".

The invoking Template may specify the value of the parameters in the included Template by name in the Value Set Constraint field of the INCLUDE row. The parameter in the included Template shall be replaced by the specified parameter value. Specification of a parameter value shall be of one of the following forms:

| Notation | Definition |
|---|--|
| \$parametername = EV or DT (CV, CSD, "CM") | The parameter passed to the Template is the specified coded term. |
| \$parametername = (CV, CSD, "CM") | The parameter passed to the Template is the specified coded term, used as a parameter in a Condition field of the included Template. |
| \$parametername = BCID or DCID (CID) CNAME | The parameter passed to the Template is the Context Group. |
| \$parametername = MemberOf {BCID or DCID (CID) CNAME} | The parameter passed to the Template is a single coded term from the Context Group in curly braces. |

The specification of a parameter value is valid only for the directly included Template. Therefore, it needs to be explicitly respecified in Templates intermediate between the originally specifying Template and the target Template. The intermediate Template may use the same parameter name as used by the Template it invokes; in such a case, the intermediate Template would invoke the subsidiary Template with a specification in the Value Set Constraint field such as:

\$parametername = \$parametername

Note

In this case, the left hand instance of \$parametername is the name in the subsidiary Template, and the right hand instance is the (parametrized) value passed into the current Template.

The invoking Template is not required to specify all parameters of included Templates. If not specified, the value set (term or context group) for that parameter is unconstrained. An unconstrained value in a Condition will cause the condition to fail.

6.2.4 Post-coordinated Codes and Has Concept Modifier Relationship

Though it may not be explicitly shown in a particular Template, the use of any coded Concept Name in any Content Item may be defined in a post-coordinated rather than pre-coordinated manner, unless explicitly forbidden by the IOD or the Template.

Accordingly, any such Content Item may have any number of Target Content Items via a "HAS CONCEPT MOD" relationship, even if not explicitly specified in a Template. Each Target Content Item of such a relationship may be more complicated than a single Content Item if the IOD permits (i.e., the post-coordinated concept may potentially be defined by a complex sub-tree).

6.2.5 Extension of Templates

An Extensible Template may be extended in an Application generating SOP Instances to include additional Content Items in its definition. Such Content Items shall not duplicate concepts for which an encoding is defined in the Template. I.e., if a method is provided for the encoding of a concept in the Template, that concept shall not be encoded using a different Content Item in an extension to the Template.

Note

There is no requirement that the included additional Content Items in a Template extension be placed at the end of the Template. The additional Content Items may be included at any semantically appropriate location in the Template, regardless of whether the order of Content Items in the Template is significant.

A Non-extensible Template shall not be modified in an Application by the addition of Content Items to its definition.

Note

The set of Content Items in either an Extensible or a Non-extensible Template may be changed in subsequent editions of the Standard, in accordance with the procedures of the DICOM Standards Committee.

A Non-Extensible Template may include a Template that is Extensible. In invoking such a Template, the content structure of SOP Instances created from the Non-Extensible Template may vary according to the varying content structure allowed by the extension of the included Template.

Note

Specification of such extensible content in a Non-Extensible Template may be desirable if the Template defines, e.g., a fixed top level structure into which a variety of lower level structures may be "plugged".

7 DCMR Context Group Specifications

Context Groups specify Value Set restrictions for Code Value (0008,0100) (or Long Code Value (0008,0119) or URN Code Value (0008,0120)) and Code Meaning (0008,0104) of Code Sequence Attributes for given functional or operational contexts. This Section specifies the semantics of DCMR Context Group Tables.

7.1 Context Group Table Field Definition

Context Groups are described using tables of the following form (optional columns are shown with italic column titles):

Type: (Non-) Extensible

Version: <yyyymmdd>

Table CID <#>. <Context Group Name>

| Coding Scheme Designator | <i>Coding Scheme Version</i> | Code Value | Code Meaning | <i><Reference Terminology> Equivalent Value</i> |
|---------------------------------|------------------------------|-------------------|---------------------|---|
| ... | ... | ... | ... | ... |
| ... | ... | ... | ... | ... |

A row of a Context Group table specifies one coded concept. Each Context Group table is named by a title and identified by a CID number and version.

The columns of the tables consist of:

- Coding Scheme Designator: the value of Coding Scheme Designator (0008,0102)
- Code Value: the value of Code Value (0008,0100) or Long Code Value (0008,0119) or URN Code Value (0008,0120)
- Coding Meaning: the value of Code Meaning (0008,0104)

In those cases where it is necessary, Coding Scheme Version (the value of Coding Scheme Version (0008,0103)) may also be specified. This column may be absent if Coding Scheme Version is not required for any of the coded concepts in the Context Group.

The value specified in the Code Meaning field is an acceptable value for the specified code value, but does not preclude the use of other synonymous text in the same or other language.

Note

Some coding schemes such as LOINC do not specify the equivalent of a Code Meaning.

If further description of the concept represented by the code is required in the DCMR (rather than referring to an external coding scheme), it is included in a separate table.

An optional column may provide an informative mapping from the coded concepts of the Context Group to a reference terminology specified in the column heading.

A Context Group may alternatively be defined by narrative reference to an externally defined coding scheme.

Note

See for instance CID 82 "Units of Measurement".

7.2 Special Conventions for Context Group Tables

7.2.1 Include Context Group

The 'Include Context Group' macro is a concise mechanism for including (by-reference) all of the rows of a specified Context Group in the invoking Context Group, effectively substituting the specified Context Group for the row where the macro is invoked. If an 'Include

Context Group' is specified, it shall be specified in the Concept Name column of a Context Group Table. Table 7.2.1-1 specifies the syntax of the 'Include Context Group macro. Inclusion may be nested, in that included Context Groups may themselves include other Context Groups. This gives rise to the possibility of circular inclusion and multiple inclusion, in which case the Context Group shall consist of the transitive closure of the set of all coded concepts within the included Context Groups.

Note

For example, it is reasonable to have the following definitions for context groups:

- Context ID 1, includes Context IDs 2 and 3
- Context ID 2, includes Context IDs 4 and 5
- Context ID 3, includes Context IDs 5 and 6
- Context ID 4 contains a, b, c
- Context ID 5 contains e, f, g
- Context ID 6 contains a, h, i

The contents of Context ID 1 will be a, b, c, e, f, g, h, i.

Table 7.2.1-1. Include Context Group Macro

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| ... | ... | ... |
| <i>Include CID nnn</i> | | |
| ... | ... | ... |

7.2.2 Units of Measurement

Context Group 82 is defined to include all units of measurement relevant to DICOM IODs. In the past it was envisaged that an extensible list of pre-coordinated codes would be included in the mapping resource.

DICOM has now adopted the Unified Codes for Units of Measurement (UCUM) standard for all units of measurement. This coding scheme allows for the "construction" of pre-coordinated codes from atomic components.

The specialization of the UCUM standard as it is used in DICOM involves the following rules:

- the Coding Scheme Designator is specified as "UCUM"
- the version of UCUM from which a code is constructed is not required, as it is not needed to resolve ambiguity in the Code Value or Code Meaning; however, there is no restriction on the version being specified in Coding Scheme Version
- the Code Value will be constructed from UCUM and make use of the "case-sensitive" form of UCUM code (e.g., "ml/s")
- the Code Meaning for other than UCUM unity may be one of the following:
 - the "print" value specified in UCUM (e.g., "mmHg" for Code Value mm[Hg])
 - the same string as sent in the Code Value (e.g., "ml/s")
 - constructed from the "names" of individual components using the Americanized form of name (e.g., "milliliters/second")
 - constructed from the "names" of individual components using the European form of name (e.g., "millilitres/second")
- In the case of UCUM unity ("1", or curly braces expression) it is forbidden to use "1" as a Code Meaning. Annex G provides Code Meanings for a Code Value (0008,0100) of 1. A Template or Context Group may constrain the Code Meaning according to the following rules:
 - UCUM default unit 1 shall use one of the Code Meaning synonyms specified in Annex G

- ratios of identically dimensioned values may use ({ratio}, UCUM, "ratio")
- unitless numeric scores may use ({M:N}, UCUM, "range: M:N") to specify the minimum and maximum value, for example, ({0:10}, UCUM, "range: 0:10")
- counts using UCUM annotation shall always use the text within the curly braces as the Code Meaning, for example, ({masses}, UCUM, "masses")
- compositions of a curly braces expression with other UCUM values may use a conventional clinical representation, for example, ({H.B.}/min, UCUM, "BPM")

The UCUM standard states that the preferred display values for codes deg (degrees of plane angle) and Cel (degrees Celsius) are "" and "°C". However, the character ° does not have a representation in the DICOM default character set (ASCII, ISO-IR 6). The Code Meaning specified in this Part therefore uses "deg" and "C". SOP Instances that specify a Specific Character Set that allows the character ° may use Code Meanings "" and "°C".

Note

1. Code Meaning "C" formally conflicts with the Code Meaning for Coulomb. In the context of DICOM use, the possibility of confusion to a user based on the display of the Code Meaning is considered remote, as there is little use of Coulomb in imaging, and the context of the displayed item Concept Name would resolve between temperature and electric charge. Automated processing based on the Code Values should not face an issue as the Code Values differ.
2. The character ° has Unicode code point U+00B0, and is represented as 0xB0 in ISO-IR 100 (Latin-1), ISO-IR 101 (Latin-2), ISO-IR 109 (Latin-3), ISO-IR 110 (Latin-4), ISO-IR 126 (Greek), ISO-IR 138 (Hebrew), and ISO-IR 148 (Latin-5). It is not encodable in ISO-IR 13 (Katakana), ISO-IR 144 (Cyrillic), ISO-IR 127 (Arabic), or ISO-IR 166 (Thai).

7.2.3 Extension of Context Groups

An Application may extend an Extensible Context Group by adding terms for new concepts. Applications may not substitute other terms of the same concept in the Context Group. Applications may not add a term that means "unspecified" or "missing" or "unknown" similar; if such a concept is intended to be permitted then the Standard will include it in the Context Group already. Such extension may be made without a change in Context Group Identifier, but with the specification of Context Group Extensions (see PS3.3).

Non-extensible Context Groups shall not be modified in an Application.

Note

The set of concepts in either an Extensible or a Non-extensible Context Group may be changed in subsequent editions of the Standard, in accordance with the procedures of the DICOM Standards Committee.

8 Coding Schemes

Table 8-1 lists the coding schemes (and their designators) defined for use in DICOM; Table 8-2 lists the HL7v3 coding schemes referenced for use in DICOM. Additionally, any coding scheme may be used that has an entry in the HL7 Registry of Coding Schemes (HL7 v2 Table 0396, or the equivalent online registry), in which case the HL7 Symbolic Name shall be used as the value for the Coding Scheme Designator in DICOM, as long as it does not conflict with an entry Table 8-1 and fits within the Value Representation of the DICOM Coding Scheme Designator (0008,0102) attribute. As specified in the HL7 v2 Table 0396, local or private coding schemes shall be identified by an alphanumeric identifier beginning with the characters "99".

Note

1. An earlier version of this table was formerly contained in Annex D of PS3.3.
2. See Section 8.2 "Coding Scheme Designator and Coding Scheme Version" in PS3.3 for further description.
3. The Coding Scheme UIDs are provided for reference only; the normative specification of UIDs and their associated meaning is the responsibility of the coding scheme developer and/or HL7.
4. The HL7 registration of Coding Schemes is available at <http://www.hl7.org/oid/index.cfm>.
5. Publication of codes or references to coding schemes within DICOM does not constitute a grant of intellectual property rights to implementers. Use of some Coding Schemes may require a license, or purchase of the relevant coding scheme publication. Implementers should consult the relevant coding scheme publisher; see also Section 2.

Table 8-1. Coding Schemes

| Coding Scheme Designator | Coding Scheme UID | Description |
|--------------------------|--------------------------|---|
| ACR | 2.16.840.1.113883.6.76 | ACR Index for Radiological Diagnosis Revised, 3 rd Edition 1986 |
| ASTM-sigpurpose | 1.2.840.10065.1.12 | ASTM E 2084 Signature Purpose codes (see Annex A1 of ASTM E 2084), ASTM Subcommittee E 31.20 Data and System Security for Health Information |
| BARI | | Bypass Angiography Angioplasty Revascularization Investigation, Alderman, EL and Stadius, M, Coronary Artery Disease 1992, 3:1189-1207; endorsed by ACC/AHA Guidelines for Coronary Angiography, J Am Coll Cardiol 1999, 33:1791 |
| BI | | ACR Breast Imaging Reporting and Data System (BI-RADS®), Coding Scheme Version (0008,0103) is required; code values are section and paragraph identifiers within the publication where the code meaning is defined (e.g., "I.D.1", where I = Breast Imaging Lexicon, D = Special Cases, 1 = Tubular Density, as the code value for "Tubular Density"). Note In the HL7 registry, the abbreviation BI is assigned to a different coding scheme, specifically the Beth Israel problem list. |
| C4 | 2.16.840.1.113883.6.12 | American Medical Association's Current Procedure Terminology 4 (CPT-4) |
| C5 | 2.16.840.1.113883.6.82 | American Medical Association's Current Procedure Terminology 5 (CPT-5) |
| caDSR | 2.16.840.1.113883.3.26.2 | NCI Cancer Data Standard Repository. The Public ID is used as the Code Value. These can be looked up as in the following example (the version is required): https://cdebrowser.nci.nih.gov/CDEBrowser/search?dataElementDetails=9/&cdId=2178693&version=2.1&PageId=DataElementsGroup |
| CD2 | 2.16.840.1.113883.6.13 | American Dental Association's (ADA) Current Dental Terminology 2 (CDT-2) |
| CTV3 | 2.16.840.1.113883.6.6 | NHS Clinical Terms Version 3 (Read Codes) |

| Coding Scheme Designator | Coding Scheme UID | Description |
|--------------------------|-------------------------|---|
| DCM | 1.2.840.10008.2.16.4 | DICOM Controlled Terminology; PS3.16 Content Mapping Resource, Annex D (Note that HL7 also specifies an OID of 2.16.840.1.113883.6.31, but deprecates it in favor of 1.2.840.10008.2.16.4). |
| DCMUID | 1.2.840.10008.2.6.1 | DICOM UID Registry |
| FMA | 2.16.840.1.113883.6.119 | Digital Anatomist Foundational Model of Anatomy |
| HPC | 2.16.840.1.113883.6.14 | Healthcare Financing Administration (HCFA) Common Procedure Coding System (HCPCS) |
| I10 | 2.16.840.1.113883.6.3 | International Classification of Diseases revision 10 (ICD-10) |
| I10P | 2.16.840.1.113883.6.4 | ICD-10 Procedure Coding System (ICD 10 PCS) |
| I9 | 2.16.840.1.113883.6.42 | International Classification of Diseases revision 9 (ICD-9) |
| I9C | 2.16.840.1.113883.6.2 | International Classification of Diseases revision 9, with Clinical Modifications (ICD-9-CM) |
| IETF4646 | | [RFC 4646], Tags for Identifying Languages, The Internet Society (2005) [RFC 4646] has been superceded by [RFC 5646]. |
| ISO639_1 | 2.16.840.1.113883.6.99 | Two-letter language codes Note HL7 uses "ISO639-1" for the symbolic name, with a hyphen rather than an underscore |
| ISO639_2 | 2.16.840.1.113883.6.100 | Three-letter language codes Note HL7 uses "ISO639-2" for the symbolic name, with a hyphen rather than an underscore |
| ISO3166_1 | 2.16.1 | [ISO 3166-1] alpha-2 Country Codes Note HL7 uses "ISO3166-1" for the symbolic name, with a hyphen rather than an underscore |
| ISO5218_1 | | Representation of Human Sexes (not used - see note) |
| ISO_OID | | ISO/IEC 8824-1- Information Technology - Abstract Syntax 1 (ASN.1): Specification of Basic Notation, and ISO/IEC 9834-1 - Information technology - Open Systems Interconnection - Procedures for the operation of OSI Registration Authorities: General procedures and top arcs of the ASN.1 Object Identifier tree |
| ITIS_TSN | 1.2.840.10008.2.16.7 | A Taxonomic Serial Number (TSN) is a unique, persistent, non-intelligent identifier for a scientific name in the context of the Integrated Taxonomic Information System (ITIS). See http://www.itis.gov . |
| LN | 2.16.840.1.113883.6.1 | Logical Observation Identifier Names and Codes, Regenstrief Institute |

| Coding Scheme Designator | Coding Scheme UID | Description |
|--------------------------|--------------------------------|--|
| MA | 1.2.840.10008.2.16.5 | The Adult Mouse Anatomy Ontology maintained by The Jackson Laboratory. See http://www.informatics.jax.org/searches/AMA.cgi?id=MA:0002405 . Hayamizu TF, Mangan M, Corradi JP, Kadin JA, Ringwald M. The Adult Mouse Anatomical Dictionary: a tool for annotating and integrating data. <i>Genome Biology</i> 2005;6(3):R29. doi:10.1186/gb-2005-6-3-r29 . http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1088948/ |
| MDC | 2.16.840.1.113883.6.24 | ISO/IEEE 11073 Medical Device Nomenclature, including all its subsections (-10101, -10102, etc.), encoded as decimal strings <partition>.<element> |
| MDNS | | Universal Medical Device (UMD) Nomenclature System |
| MGI | 1.2.840.10008.2.16.8 | The MGI ID from the Mouse Genome Initiative (MGI) nomenclature. See http://www.informatics.jax.org/mgihome/nomen/ . |
| MSH | 2.16.840.1.113883.6.177 | US National Library of Medicine (NLM) Medical Subject Headings (MeSH) See http://www.nlm.nih.gov/mesh/meshhome.html . |
| NBD | 2.16.840.1.113883.15.2 | NASPE/BPEG Defibrillator Code Bernstein AD, et al. "The NASPE/BPEG Defibrillator Code" <i>PACE</i> , 16:1776-1780, 1993 |
| NBG | 2.16.840.1.113883.15.3 | NASPE/BPEG Generic Pacemaker Code (2000) Bernstein AD, et al. "The Revised NASPE/BPEG Generic Code for antibradycardia, adaptive-rate, and multisite pacing." <i>Pacing Clin Electrophysiol.</i> , 25:260-264, 2002 See http://www.hrsonline.org/Practice-Guidance/Clinical-Guidelines-Documents/2002-The-Revised-NASPE-BPEG-Generic-Code-for-Antibradycardia-AdaptiveRate-and-Multisite-Pacing . |
| NCDR | | American College of Cardiology National Cardiovascular Data Registry™ Cath Lab Module Version 1.1, 1997; Version 2.0b, 1999 |
| NCIt | 2.16.840.1.113883.3.26.1.1 | NCI Thesaurus. See http://ncit.nci.nih.gov/ |
| NEU | 2.16.840.1.113883.6.210 | NeuroNames. The numeric brainInfoID is used as the code value. See http://braininfo.rprc.washington.edu/aboutBrainInfo.aspx#NeuroNames |
| NICIP | 2.16.840.1.113883.2.1.3.2.4.21 | UK National Health Service National Interim Clinical Imaging Procedures (NICIP) Short Code (e.g., "CCHAPC" for CT Thorax abdomen pelvis with contrast) |
| NPI | | HCFA National Provider Identifier |
| POS | 2.16.840.1.113883.6.50 | HCFA Place of Service (POS) Codes for Professional Claims |
| PUBCHEM_CID | 1.2.840.10008.2.16.9 | US National Center for Biotechnology Information (NCBI) PubChem Compound CID. See https://pubchem.ncbi.nlm.nih.gov/ . |
| RADLEX | 2.16.840.1.113883.6.256 | RadLex |

| Coding Scheme Designator | Coding Scheme UID | Description |
|--------------------------|-------------------------|--|
| RFC3066 | 2.16.840.1.113883.6.121 | [RFC 3066], Tags for the Identification of Languages, Internet Engineering Task Force Note HL7 uses "IETF3066" for the symbolic name. [RFC 3066] has been superseded by [RFC 4646], which in turn has been superseded by [RFC 5646]. |
| RFC5646 | 2.16.840.1.113883.6.316 | [RFC 5646], Tags for Identifying Languages, The Internet Society (2009) Note The HL7 OID Registry specifies "rfc5646", not "ietf5646", as the Desired Symbolic Name (inconsistent with the pattern used for [RFC 4646]). [RFC 5646] constitutes one part of IETF Best Current Practice BCP 47 Tags for Identifying Languages, which also includes [RFC 4647] Matching of Language Tags; [RFC 4647] is not relevant in this context. |
| 99SDM | 2.16.840.1.113883.6.53 | SNOMED DICOM Microglossary (Retired) (see Section 8.1) |
| SCPECG | | Standard Communications Protocol for Computer-Assisted Electrocardiography, Draft proposal for ISO Standard, AAMI, Revision 1.3 |
| SNM3 | 2.16.840.1.113883.6.51 | SNOMED International Version 3 (see Section 8.1) |
| SCT | 2.16.840.1.113883.6.96 | SNOMED-CT, using the CT code values |
| SRT | 2.16.840.1.113883.6.96 | SNOMED-CT, using the "SNOMED-RT style" code values (see Section 8.1) Note HL7 uses "SNM" for the symbolic name. |
| UBERON | 1.2.840.10008.2.16.6 | The Uberon ID from the Uberon integrated cross-species ontology covering anatomical structures in animals. See http://uberon.org/ . |
| UCUM | 2.16.840.1.113883.6.8 | Unified Code for Units of Measure |
| UMLS | 2.16.840.1.113883.6.86 | UMLS codes as CUIs making up the values in a coding system |
| UPC | 2.16.840.1.113883.6.55 | Universal Product Code - Universal Code Council |

Note

Coding Scheme Designator ISO5218_1 was improperly specified in earlier editions of the standard. The codes attributed to that coding scheme have been added to the DICOM Controlled Terminology, and thus all references to coding scheme ISO5218_1 should be considered equivalent to coding scheme DCM.

Table 8-2. HL7v3 Coding Schemes

| Coding Scheme Designator | Coding Scheme UID | Description |
|---------------------------|--------------------------|-------------|
| ActCode | 2.16.840.1.113883.5.4 | |
| ActPriority | 2.16.840.1.113883.5.7 | |
| AdministrativeGender | 2.16.840.1.113883.5.1 | |
| mediaType | 2.16.840.1.113883.5.79 | RFC2046 |
| NullFlavor | 2.16.840.1.113883.5.1008 | |
| ObservationInterpretation | 2.16.840.1.113883.5.83 | |

| Coding Scheme Designator | Coding Scheme UID | Description |
|--------------------------|------------------------|-------------|
| Confidentiality | 2.16.840.1.113883.5.25 | |
| ParticipationType | 2.16.840.1.113883.5.90 | |

8.1 SNOMED

SNOMED (the Systematized Nomenclature of Medicine) is the preferred coding system within DICOM for anatomy, clinical findings, procedures, pharmaceutical/biologic products (including contrast agents), and other clinical terms.

SNOMED has had various versions, including SNOMED International (Version 3), which was issued in 1993 and revised through 1998, SNOMED Reference Terminology, the successor to SNOMED 3 that was published between 1999 and 2001, and SNOMED Clinical Terms, which has been the name since 2002. The coding scheme is fully backward-compatible across SNOMED 3, SNOMED-RT, and SNOMED CT. SNOMED CT introduced a solely numeric set of codes (ConceptID) in addition to the former alphanumeric codes (SnomedID), but all SNOMED terminology concepts have both a numeric and an alphanumeric code.

In previous editions of the DICOM Standard, the following Coding Scheme Designators were used for SNOMED codes in DICOM:

- "99SDM", denoting the provisional SNOMED DICOM Microglossary
- "SNM3", denoting SNOMED International (Version 3)
- "SRT", originally denoting SNOMED-RT

All uses of SNOMED coded terms in DICOM are now indicated by the Coding Scheme Designator "SRT", identifying them as SNOMED CT terms using the "SNOMED-RT style" alphanumeric code values, with some exceptions:

- The "Nuclear Medicine Image IOD" in PS3.3 and "Positron Emission Tomography Image IOD" in PS3.3 in some code sequences require the Coding Scheme Designator "99SDM" as an Enumerated Value (see PS3.3).
- The Mammography View Codes of CID 4014 "View for Mammography" and CID 4015 "View Modifier for Mammography" may use the Coding Scheme Designator "SNM3" for implementation adherence to regulatory approvals.

Consequently, when a Coding Scheme Designator of "99SDM" or "SNM3" is encountered, it shall be treated as equivalent to "SRT" for the purpose of interpreting the Code Value.

Note

"SRT" as a coding scheme designator is used only in the DICOM Standard. HL7v2 did not standardize a coding scheme designator for SNOMED-RT.

When interoperating with systems that use SNOMED CT codes obtained from a source other than the DICOM Standard, Application Entities may receive Code Sequences with a Coding Scheme Designator of "SNOMED-CT" and a numeric ConceptID code. It is the responsibility of such Application Entities to convert any such codes to the alphanumeric SnomedID with Coding Scheme Designator "SRT" for use in DICOM objects and services.

8.1.1 Use of SNOMED Anatomic Concepts

In general, DICOM uses the anatomic concepts with the term "structure", rather than with the term "entire". This is an important distinction in SNOMED. "Entire" is a child concept to "structure", has a more restricted meaning, and typically is used in conjunction with treatments (e.g., "excision of *entireright* kidney"). It is used in distinction to other sibling children of the parent concept that may identify parts of the parent anatomic feature. Since imaging typically targets both the anatomic feature and the area around it, or sometimes just part of the anatomic feature, DICOM usually uses "structure" concepts that are more inclusive than the "entire" concepts.

8.2 ISO_OID

ISO 8824 and ISO 9834-1 are the standards defined for the generation of object identifiers that are used as DICOM Unique Identifiers (see PS3.5), can also serve as a general mechanism for identifying organizations and objects defined by those organizations.

When the Coding Scheme Designator is ISO_OID, the Code Value shall be the numeric (dot delimited) form of a valid object identifier.

A repository of known existing object identifiers can be found at <http://www.oid-info.com/index.htm>. For example:

- the ISO 9834-1 assigned numeric object identifier for the country France, is "1.0.3166.2.2.1.250" (since ISO 3166 defines a means for maintaining country codes using object identifiers)
- the object identifier for the RIPEMD-160 cryptographic hash function is "1.0.10118.3.0.49"
- the object identifier for the HL7 V2 table of codes for marital status is "2.16.840.1.113883.12.2"

The re-use of object identifiers for existing concepts that do not have an alternative more appropriate coding scheme compatible with DICOM provides a mechanism to avoid defining new codes. For example, HL7 assigned object identifiers can be found at <http://www.hl7.org/oid/index.cfm>.

Though the intent of ISO_OID is to define organizational roots for the hierarchical assignment of object identifiers, and not specifically to identify organizations per se, the organizational root values can be construed as identifying the organization. For example, the DICOM Standards Organization itself can be identified by the value "1.2.840.10008". See also CID 5002 "Organizations".

A Structured Reporting Templates (Normative)

This Annex specifies the content of Standard Templates that may be used by DICOM SR IODs.

General Templates

TID 300 Measurement

This Template provides a general structure for a numeric measurement, together with evaluations of its normality and/or significance, and the inference source(s) for its value. This structure is instantiated by inclusion of this Template with specific contextual parameters from a parent Template.

Table TID 300. Parameters

| Parameter Name | Parameter Usage |
|----------------------------|--|
| \$Measurement | Coded term or Context Group for Concept Name of measurement |
| \$Units | Units of Measurement |
| \$ModType | Modifier Name for Concept Name of measurement |
| \$ModValue | Modifier Value for Concept Name of measurement |
| \$Method | Value for Measurement Method |
| \$Derivation | Value for Measurement Derivation |
| \$TargetSite | Value(s) for Anatomic Location of measurement |
| \$TargetSiteMod | Modifier Value for Anatomic Location of measurement |
| \$Equation | Coded term or Context Group for the equation or table from which the measurement was derived or computed |
| \$ImagePurpose | Purpose of Reference for an image used as a source of the measurement |
| \$WavePurpose | Purpose of Reference for a waveform used as a source of the measurement |
| \$RefAuthority | Bibliographic reference or authority for statistical properties of a reference population |
| \$RangeAuthority | Bibliographic reference or authority for the normal range of the measurement |
| \$DerivationParameter | Coded term or Context Group for Concept Name of a derivation parameter |
| \$DerivationParameterUnits | Units of derivation parameter |

Type: Extensible
Order: Significant
Root: No

Table TID 300. Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|-----|----------|-----------|----------------------|
| 1 | | | NUM | \$Measurement | 1 | M | | UNITS = \$Units |
| 2 | > | HAS CONCEPT MOD | CODE | \$ModType | 1-n | U | | \$ModValue |
| 3 | > | HAS CONCEPT MOD | CODE | EV (G-C036, SRT, "Measurement Method") | 1 | U | | \$Method |
| 4 | > | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | U | | \$Derivation |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|------------|--|
| 5 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1-n | U | | \$TargetSite |
| 6 | >> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 244 "Laterality" |
| 7 | >> | HAS CONCEPT MOD | CODE | DT (G-A1F8, SRT, "Topographical modifier") | 1 | U | | \$TargetSiteMod |
| 8 | > | HAS PROPERTIES | INCLUDE | DTID 310 "Measurement Properties" | 1 | U | | \$RefAuthority = \$RefAuthority \$RangeAuthority = \$RangeAuthority |
| 9 | > | INFERRED FROM | NUM | \$DerivationParameter | 1-n | UC | XOR Row 10 | UNITS = \$DerivationParameterUnits |
| 10 | > | R-INFERRED FROM | NUM | \$DerivationParameter | 1-n | UC | XOR Row 9 | UNITS = \$DerivationParameterUnits |
| 11 | > | INFERRED FROM | INCLUDE | DTID 315 "Equation or Table" | 1 | UC | XOR Row 12 | \$Equation = \$Equation |
| 12 | > | INFERRED FROM | TEXT | DCID 228 "Equation or Table" | 1 | UC | XOR Row 11 | |
| 13 | > | | INCLUDE | DTID 320 "Image or Spatial Coordinates" | 1-n | U | | \$Purpose = \$ImagePurpose |
| 14 | > | | INCLUDE | DTID 321 "Waveform or Temporal Coordinates" | 1-n | U | | \$Purpose = \$WavePurpose |
| 15 | > | | INCLUDE | DTID 1000 "Quotation" | 1 | U | | |
| 16 | > | HAS CONCEPT MOD | TEXT | EV (121050, DCM, "Equivalent Meaning of Concept Name") | 1 | U | | |
| 17 | > | HAS OBS CONTEXT | INCLUDE | DTID 4108 "Tracking Identifier" | 1 | U | | |
| 18 | > | INFERRED FROM | COMPOSITE | EV (126100, DCM, "Real World Value Map used for measurement") | 1 | U | | SOP Class UID shall be Real World Value Mapping Storage ("1.2.840.10008.5.1.4.1.1.67") |

Content Item Descriptions

| | |
|-----------------|--|
| Rows 2, 3, 4, 5 | The HAS CONCEPT MOD items allow the explicit definition of terms for post-coordination of the measurement concept name. Additional post-coordinated modifier terms may be included in a SOP Instance based on this Template, in accordance with section 6.2.4, or as defined by Templates that invoke this Template and explicitly define additional post-coordinated modifiers (e.g., TID 5203). |
| Row 5 | Finding-site |
| Row 5 | Finding site may be multiple when a region of interest spans multiple anatomical locations and there is not a single pre-coordinated code describing the combination of locations. E.g., when a malignant, inflammatory or traumatic process spans actual or defined anatomical boundaries. There is no requirement that the multiple locations be contiguous. may be multiple when a region of interest spans multiple anatomical locations and there is not a single pre-coordinated code describing the combination of locations. E.g., when a malignant, inflammatory or traumatic process spans actual or defined anatomical boundaries. There is no requirement that the multiple locations be contiguous. |

| | |
|------------|---|
| Rows 9, 10 | The INFERRED FROM items allow the specification (by-value or by-reference) of numeric values that were used in the derivation of the numeric measurement of Row 1. The nature of the inference is not explicitly conveyed; it may be implicit in the Concept Names of the measurements. Inference by-reference is valid only in SOP Classes that permit the INFERRED FROM relationship by-reference. |
| Row 16 | Equivalent Meaning of Concept Name allows the creating application to specify the preferred composed concept name representing the measurement and the associated post-coordinated concept modifiers. The concept modifiers may include those specified in this Template, in a Template that invokes this Template, or at the option of the creating application in accordance with section 6.2.4. This composed concept name may be rendered by a display application. |
| Row 18 | Row 18 is a reference to an RWV that describes how measurements were made in units that differ from the stored pixel values in the images referenced in Row 13. E.g., for a PET SUVbw measurement, the mapping from activity/concentration units in the referenced image that was used (and which may be reused for measurements in the future) may be encoded in a referenced RWV instance. This reference overrides any reference in an including Template (such as for a Measurement Group). |

TID 310 Measurement Properties

This Template provides the properties of a numeric measurement, including evaluations of its normality and/or significance, its relationship to a reference population, and an indication of its selection from a set of measurements.

Table TID 310. Parameters

| Parameter Name | Parameter Usage |
|------------------|---|
| \$RefAuthority | Bibliographic reference or authority for statistical properties of a reference population |
| \$RangeAuthority | Bibliographic reference or authority for the normal range of the measurement |

Type: Extensible
Order: Significant
Root: No

Table TID 310. Measurement Properties

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|-------------------------------------|
| 1 | | | CODE | EV (121402, DCM, "Normality") | 1 | U | | DCID 222 "Normality Codes" |
| 2 | | | INCLUDE | DTID 311 "Measurement Statistical Properties" | 1 | U | | \$RefAuthority = \$RefAuthority |
| 3 | | | INCLUDE | DTID 312 "Normal Range Properties" | 1 | U | | \$RangeAuthority = \$RangeAuthority |
| 4 | | | CODE | EV (121403, DCM, "Level of Significance") | 1 | U | | DCID 220 "Level of Significance" |
| 5 | | | NUM | DCID 225 "Measurement Uncertainty Concepts" | 1-n | U | | |
| 6 | | | CODE | EV (121404, DCM, "Selection Status") | 1 | U | | DCID 224 "Selection Method" |

TID 311 Measurement Statistical Properties

This Template provides the statistical properties of a reference population for a numeric measurement, and/or the position of a measurement in such a reference population.

Table TID 311. Parameters

| Parameter Name | Parameter Usage |
|----------------|---|
| \$RefAuthority | Bibliographic reference or authority for statistical properties of a reference population |

Type: Extensible
Order: Significant
Root: No

Table TID 311. Measurement Statistical Properties

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|-----|----------|-----------|----------------------|
| 1 | | | NUM | DCID 221 "Measurement Range Concepts" | 1-n | M | | |
| 2 | | | TEXT | EV (121405, DCM, "Population description") | 1 | U | | |
| 3 | | | TEXT | EV (121406, DCM, "Reference Authority") | 1 | UC | XOR row 4 | |
| 4 | | | CODE | EV (121406, DCM, "Reference Authority") | 1 | UC | XOR row 3 | \$RefAuthority |

TID 312 Normal Range Properties

This Template provides the normal range of values for a numeric measurement.

Table TID 312. Parameters

| Parameter Name | Parameter Usage |
|------------------|--|
| \$RangeAuthority | Bibliographic reference or authority for the normal range of the measurement |

Type: Extensible
Order: Significant
Root: No

Table TID 312. Normal Range Properties

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|-----|----------|-----------|----------------------|
| 1 | | | NUM | DCID 223 "Normal Range Values" | 1-n | M | | |
| 2 | | | TEXT | EV (121407, DCM, "Normal Range description") | 1 | U | | |
| 3 | | | TEXT | EV (121408, DCM, "Normal Range Authority") | 1 | UC | XOR row 4 | |
| 4 | | | CODE | EV (121408, DCM, "Normal Range Authority") | 1 | UC | XOR row 3 | \$RangeAuthority |

TID 315 Equation or Table**Table TID 315. Parameters**

| Parameter Name | Parameter Usage |
|----------------|--|
| \$Equation | Coded term or Context Group for the equation or table from which a measurement was derived or computed |

Type: Extensible
Order: Significant
Root: No

Table TID 315. Equation or Table

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|------------------|------|------------------------------|-----|----------|-----------|----------------------|
| 1 | | | CODE | DCID 228 "Equation or Table" | 1 | M | | \$Equation |
| 2 | > | HAS PROPERTIES | NUM | | 1-n | U | | |
| 3 | > | R-HAS PROPERTIES | NUM | | 1-n | U | | |

Content Item Descriptions

| | |
|-------|--|
| Row 2 | The HAS PROPERTIES allows the specification of the numeric values used as input to the equation or table identified in Row 1. |
| Row 3 | The HAS PROPERTIES allows the specification by-reference of the numeric values used as input to the equation or table. This row is valid only in SOP Classes that permit the HAS PROPERTIES relationship by-reference. |

Note

For example, if Row 1 identifies a specific Body Surface Area equation, Rows 2 and 3 can be used to convey (by-value or by-reference) the Patient Height and Patient Weight numeric measurements used in the BSA computation.

TID 320 Image or Spatial Coordinates

This Template provides a general structure for inference from an image, either as a whole, or with specific spatial coordinates, as a single included Template in the invoking Template. If allowed by the IOD, the Image Content Item may be included by-reference.

Table TID 320. Parameters

| Parameter Name | Parameter Usage |
|----------------|---|
| \$Purpose | Purpose of Reference for an image used as a source of the measurement |

Type: Extensible
Order: Significant
Root: No

Table TID 320. Image or Spatial Coordinates

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--------------|----|----------|---------------|----------------------|
| 1 | | INFERRED FROM | IMAGE | \$Purpose | 1 | MC | XOR Rows 2, 3 | |
| 2 | | R-INFERRED FROM | IMAGE | | 1 | MC | XOR Rows 1, 3 | |
| 3 | | INFERRED FROM | SCCOORD | \$Purpose | 1 | MC | XOR Rows 1, 2 | |
| 4 | > | SELECTED FROM | IMAGE | | 1 | MC | XOR Row 5 | |
| 5 | > | R-SELECTED FROM | IMAGE | | 1 | MC | XOR Row 4 | |

TID 321 Waveform or Temporal Coordinates

This Template provides a general structure for referencing a waveform, either as a whole, or with specific temporal coordinates, as a single included Template in the invoking Template. If allowed by the IOD, the Waveform Content Item may be included by-reference.

Table TID 321. Parameters

| Parameter Name | Parameter Usage |
|----------------|---|
| \$Purpose | Purpose of Reference for a waveform used as a source of the measurement |

Type: Extensible
Order: Significant
Root: No

Table TID 321. Waveform or Temporal Coordinates

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|----------|--------------|----|----------|---------------|----------------------|
| 1 | | INFERRED FROM | WAVEFORM | \$Purpose | 1 | MC | XOR Rows 2, 3 | |
| 2 | | R-INFERRED FROM | WAVEFORM | | 1 | MC | XOR Rows 1, 3 | |
| 3 | | INFERRED FROM | TCOORD | \$Purpose | 1 | MC | XOR Rows 1, 2 | |
| 4 | > | SELECTED FROM | WAVEFORM | | 1 | MC | XOR Row 5 | |
| 5 | > | R-SELECTED FROM | WAVEFORM | | 1 | MC | XOR Row 4 | |

TID 350 References to Supporting Evidence

This Template provides references to supporting evidence in the form of DICOM composite objects. This includes references to images, spatial coordinates on images, and other composite objects, such as Structured Reports.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 350. References to Supporting Evidence

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|----------------------|
| 1 | | | IMAGE | BCID 7003 "Diagnostic Imaging Report Purposes of Reference" | 1-n | U | | |
| 2 | | | SCOORD | BCID 7003 "Diagnostic Imaging Report Purposes of Reference" | 1-n | U | | |
| 3 | > | SELECTED FROM | IMAGE | | 1 | M | | |
| 4 | | | COMPOSITE | DT (122073, DCM, "Current procedure evidence") | 1-n | U | | |
| 5 | > | HAS CONCEPT MOD | CODE | EV (121144, DCM, "Document Title") | 1 | U | | |

TID 351 Previous Reports

This general Template provides a means to reference previous structured reporting composite object instances.

Type: Extensible
Order: Significant
Root: No

Table TID 351. Previous Reports

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|-----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (111549, DCM, "Previous Reports") | 1 | M | | |
| 2 | > | CONTAINS | COMPOSITE | | 1-n | M | | |

Content Item Descriptions

| | |
|-------|---|
| Row 2 | Concept Name may be the Root Concept Name (title) of a Structured Report composite object instance. |
|-------|---|

TID 1000 Quotation

Unless otherwise specified, content in an SR tree is "directly" observed. When material is quoted (from a source that is either a document or something spoken), then it is necessary to specify:

- the fact that one is quoting
- who is doing the quoting
- the source of the quote
- who is being quoted, and who and what the quote is about

This Template establishes a mechanism for quoting by specifying:

- the fact that one is quoting, by the presence of the contents of the Template in the tree
- that the "observer context" above the invocation of this Template establishes who is doing the quoting
- the source of the quote, by the values of the Content Items in this Template
- who is being quoted, and who and what the quote is about, by the observation context that is established at the start of the quoted material

This Template may be invoked recursively, to nest quotes within quotes. In essence, the chain of who is quoting whom can be established by maintaining a "stack" of observer context.

If a dimension of observation context is the same in the quoted material as in the enclosing tree, then the observation context does not need to be respecified (e.g., the quote may be about the same subject or procedure). Typically, the observer context would change (unless one were quoting oneself).

In the case of quoting something that was spoken, the "observer" is the person speaking.

TID 1000 is attached using HAS OBS CONTEXT relationships to the top node of the material that is being quoted. The presence of the Quoted Source concept signals the fact that the material is quoted rather than directly observed.

Type: Extensible
Order: Significant
Root: No

Table TID 1000. Quotation

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|------------------------------------|----|----------|-----------|--|
| 1 | | HAS OBS CONTEXT | CODE | EV (121001, DCM, "Quotation Mode") | 1 | M | | EV (121003, DCM, "Document") EV (121004, DCM, "Verbal") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-----------------------------------|----|----------|--|----------------------|
| 2 | | HAS OBS CONTEXT | COMPOSITE | EV (121002, DCM, "Quoted Source") | 1 | MC | Required if quoted material source is a DICOM composite object | |
| 3 | | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |

TID 1001 Observation Context

Specifies attributes of observation context that may be defined, extended or replaced at any location in the SR tree.

This includes attributes that specify:

- who or what the observation is about ("subject context")
- what procedure the observation is about ("procedure context")
- who or what is making the observation ("observer context")

Establishing context includes two aspects of each dimension: identification and description (e.g., patient name and ID vs. patient's age, height or weight).

Whenever one dimension of context is changed or an attribute is added, all attributes of that dimension of context are "flushed", that is they need to be repeated in their entirety. For example, when the subject is changed from patient (name, id) to fetus (number), then the parameters of the patient are discarded. E.g., the patient's ID does not apply to the fetus.

"Extending" the same class and dimension of observation context isn't feasible, since one cannot "null out" or remove a previously set attribute. Any time a dimension of observation context is "replaced", any attributes that are unspecified remain unspecified (i.e., they are not inherited).

Type: Non-Extensible
Order: Significant
Root: No

Table TID 1001. Observation Context

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|-------------------------------|-----|----------|---|---|
| 1 | | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | MC | Required if all aspects of observer context are not inherited. | Defaults to the attributes of the Author Observer Sequence (0040,A078), or the Verifying Observer Sequence (0040,A073) if the Author Observer Sequence is not present |
| 2 | | HAS OBS CONTEXT | INCLUDE | DTID 1005 "Procedure Context" | 1 | MC | Required if all aspects of procedure context are not inherited. | |
| 3 | | HAS OBS CONTEXT | INCLUDE | DTID 1006 "Subject Context" | 1 | MC | Required if all aspects of observation subject context are not inherited. | |

TID 1002 Observer Context

The observer (person or device) that created the Content Items to which this context applies.

Whenever this Template is invoked, all previously inherited attributes of Observer Context are discarded and replaced.

There may be more than one observer, as this Template may be invoked with a VM 1-n, and both person and device observers. In such a case, the Content Items of TID 1003 "Person Observer Identifying Attributes" and TID 1004 "Device Observer Identifying Attributes" shall be included in the order in which the values of Observer Type are specified. Since TID 1003 "Person Observer Identifying Attributes" and TID 1004 "Device Observer Identifying Attributes" both include a single mandatory Content Item as their first Content Item, which observer is being described can be determined

Type: Non-Extensible
Order: Significant
Root: No

Table TID 1002. Observer Context

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|----|----------|--|---|
| 1 | | HAS OBS CONTEXT | CODE | EV (121005, DCM, "Observer Type") | 1 | MC | IF Observer type is device | DCID 270 "Observer Type" Defaults to (121006, DCM, "Person") |
| 2 | | HAS OBS CONTEXT | INCLUDE | DTID 1003 "Person Observer Identifying Attributes" | 1 | MC | IFF Row 1 value = (121006, DCM, "Person") or Row 1 is absent | |
| 3 | | HAS OBS CONTEXT | INCLUDE | DTID 1004 "Device Observer Identifying Attributes" | 1 | MC | IFF Row 1 value = (121007, DCM, "Device") | |

TID 1003 Person Observer Identifying Attributes

This Template contains identifying (and optionally descriptive) attributes of persons that are observers.

Type: Extensible
Order: Significant
Root: No

Table TID 1003. Person Observer Identifying Attributes

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-------|--|----|----------|-----------|--|
| 1 | | | PNAME | EV (121008, DCM, "Person Observer Name") | 1 | M | | |
| 2 | | | TEXT | EV (121009, DCM, "Person Observer's Organization Name") | 1 | U | | Defaults to Institution Name (0008,0080) of the General Equipment Module |
| 3 | | | CODE | EV (121010, DCM, "Person Observer's Role in the Organization") | 1 | U | | BCID 7452 "Organizational Roles" |
| 4 | | | CODE | EV (121011, DCM, "Person Observer's Role in this Procedure") | 1 | U | | BCID 7453 "Performing Roles" |

TID 1004 Device Observer Identifying Attributes

This Template (derived from the DICOM General Equipment Module of PS3.3) contains identifying (and optionally descriptive) attributes of devices that are observers.

Type: Extensible
Order: Significant

Root: No

Table TID 1004. Device Observer Identifying Attributes

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|--|-----|----------|-----------|--|
| 1 | | | UIDREF | EV (121012, DCM, "Device Observer UID") | 1 | M | | |
| 2 | | | TEXT | EV (121013, DCM, "Device Observer Name") | 1 | U | | Defaults to value of Station Name (0008,1010) in General Equipment Module |
| 3 | | | TEXT | EV (121014, DCM, "Device Observer Manufacturer") | 1 | U | | Defaults to value of Manufacturer (0008,0070) in General Equipment Module |
| 4 | | | TEXT | EV (121015, DCM, "Device Observer Model Name") | 1 | U | | Defaults to value of Manufacturer's Model Name (0008,1090) in General Equipment Module |
| 5 | | | TEXT | EV (121016, DCM, "Device Observer Serial Number") | 1 | U | | Defaults to value of Device Serial Number (0018,1000) in General Equipment Module |
| 6 | | | TEXT | EV (121017, DCM, "Device Observer Physical Location During Observation") | 1 | U | | |
| 7 | | | CODE | EV (113876, DCM, "Device Role in Procedure") | 1-n | U | | BCID 7445 "Device Participating Roles" |
| 8 | | | TEXT | EV (110119, DCM, "Station AE Title") | 1 | U | | |

Content Item Descriptions

| | |
|-------|--|
| Row 7 | If the device performing the observations has other roles, e.g., as the irradiating device in a dose report, this may be recorded here, if not implicit. |
|-------|--|

TID 1005 Procedure Context

This Template contains identifying (and optionally descriptive) attributes of the procedure that is the source of evidence being interpreted.

Whenever this Template is invoked, all previously inherited attributes of Procedure Context are discarded and replaced.

Note

If an observed digital image is identified by other than a DICOM UID, a Study Instance UID must be generated for the non-DICOM evidence. The same must be done to document interpretation of hard-copy radiographs generated outside of the scope of the DICOM system.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 1005. Procedure Context

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|---|-----|----------|-----------|---|
| 1 | | | UIDREF | EV (121018, DCM, "Procedure Study Instance UID") | 1 | U | | Defaults to Study Instance UID (0020, 000D) of General Study Module |
| 2 | | | UIDREF | EV (121019, DCM, "Procedure Study Component UID") | 1-n | U | | |
| 3 | | | TEXT | EV (121020, DCM, "Placer Number") | 1 | U | | |
| 4 | > | HAS CONCEPT MOD | TEXT | EV (110190, DCM, "Issuer of Identifier") | 1 | U | | See note |
| 5 | | | TEXT | EV (121021, DCM, "Filler Number") | 1 | U | | |
| 6 | > | HAS CONCEPT MOD | TEXT | EV (110190, DCM, "Issuer of Identifier") | 1 | U | | See note |
| 7 | | | TEXT | EV (121022, DCM, "Accession Number") | 1 | U | | Defaults to (0008,0050) |
| 8 | > | HAS CONCEPT MOD | TEXT | EV (110190, DCM, "Issuer of Identifier") | 1 | U | | See note |
| 9 | | | CODE | EV (121023, DCM, "Procedure Code") | 1-n | U | | Defaults to Procedure Code Sequence (0008,1032) of General Study Module |

Content Item Descriptions

| | |
|-----------|--|
| Rows 5, 6 | The issuer shall be formatted in accordance with the HL7v2 Hierarchic Designator Data Type. That format is [<i>Namespace ID</i>] ^ [<i>Universal ID</i> ^ <i>Universal ID Type</i>], where <i>Namespace ID</i> identifies an entity within the local namespace or domain, <i>Universal ID</i> is a universal or unique identifier for an entity, and <i>Universal ID Type</i> specifies the standard format of the Universal ID (see HL7 v2 Section 2.A.33). |
|-----------|--|

TID 1006 Subject Context

This Template contains identifying (and optionally descriptive) attributes of the subject of the observation.

Subject context identifies (and optionally) describes the subject of the observation, whether it be a patient (human or animal), a fetus (human or animal), a specimen, or a device.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 1006. Subject Context

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---------------------------------------|----|----------|---|--|
| 1 | | | CODE | EV (121024, DCM, "Subject Class") | 1 | MC | IF subject is not the Patient | DCID 271 "Observation Subject Class" Defaults to (121025, DCM, "Patient") |
| 2 | | | INCLUDE | DTID 1007 "Subject Context, Patient" | 1 | UC | IFF Row 1 value = (121025, DCM, "Patient") or Row 1 is absent | May be used for human or animal patients |
| 3 | | | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | UC | IFF Row 1 value = (121026, DCM, "Fetus") | May be used for human or animal fetuses |
| 4 | | | INCLUDE | DTID 1009 "Subject Context, Specimen" | 1 | UC | IFF Row 1 value = (121027, DCM, "Specimen") | |
| 5 | | | INCLUDE | DTID 1010 "Subject Context, Device" | 1 | UC | IFF Row 1 value = (121192, DCM, "Device Subject") | |

TID 1007 Subject Context, Patient

Identifies (and optionally describes) a patient who is the subject.

Type: Extensible
Order: Significant
Root: No

Table TID 1007. Subject Context, Patient

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|--|----|----------|----------------------------|--|
| 1 | | | UIDREF | EV (121028, DCM, "Subject UID") | 1 | U | | E.g., SOP Instance UID of Detached Patient Instance |
| 2 | | | PNAME | EV (121029, DCM, "Subject Name") | 1 | MC | Required if not inherited. | Defaults to value of Patient's Name (0010,0010) in Patient Module |
| 3 | | | CODE | EV (121030, DCM, "Subject ID") | 1 | MC | Required if not inherited. | Defaults to value of Patient ID (0010,0020) in Patient Module |
| 4 | | | DATE | EV (121031, DCM, "Subject Birth Date") | 1 | U | | Defaults to value of Patient's Birth Date (0010,0030) in Patient Module |
| 5 | | | CODE | EV (121032, DCM, "Subject Sex") | 1 | U | | Defaults to value equivalent to Patient's Sex (0010,0040) in Patient Module DCID 7455 "Sex" |
| 6 | | | NUM | EV (121033, DCM, "Subject Age") | 1 | U | | Defaults to value of Patient's Age (0010,1010) in Patient Study Module UNITS = DCID 7456 "Units of Measure for Age" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|-------------------------------------|----|----------|----------------------------|---|
| 7 | | | CODE | EV (121034, DCM, "Subject Species") | 1 | MC | Required if not inherited. | DCID 7454 "Animal Taxonomic Rank Values" Defaults to value of Patient Species Code Sequence (0010,2202) in Patient Module, or if absent, (L-85003, SRT, "homo sapiens"). |
| 8 | | | CODE | EV (121035, DCM, "Subject Breed") | 1 | U | | Defaults to value of Patient Breed Code Sequence (0010,2293) in Patient Module DCID 7480 "Breed" |

TID 1008 Subject Context, Fetus

Identifies (and optionally describes) a fetus who is the subject.

Type: Extensible
Order: Significant
Root: No

Table TID 1008. Subject Context, Fetus

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|---|----|----------|--------------------|--|
| 1 | | | PNAME | EV (121036, DCM, "Mother of fetus") | 1 | U | | Defaults to an observation subject that is a patient prior to replacing the Observation Subject Class with Fetus. |
| 2 | | | UIDREF | EV (121028, DCM, "Subject UID") | 1 | U | | For longitudinal tracking of individual fetuses |
| 3 | | | TEXT | EV (121030, DCM, "Subject ID") | 1 | MC | IF row 4 is absent | For longitudinal tracking of individual fetuses (human readable value e.g., "A" or "1") |
| 4 | | | TEXT | EV (11951-1, LN, "Fetus ID") | 1 | MC | IF row 3 is absent | For separation of multiple fetuses during this procedure e.g., fetus '1' of '2' ... not for longitudinal comparisons.; i.e., the "m" of fetus "m" of "n" |
| 5 | | | NUM | EV (11878-6, LN, "Number of Fetuses by US") | 1 | U | XOR Row 6 | UNITS = EV (1, UCUM, "no units") |
| 6 | | | NUM | EV (55281-0, LN, "Number of Fetuses") | 1 | UC | XOR Row 5 | UNITS = EV (1, UCUM, "no units") |

Content Item Descriptions

| | |
|----------|---|
| Row 5, 6 | The "n" of fetus "m" of "n"; either the code for the ultrasound method (Row 5) or for the non-specific method (Row 6) may be used |
|----------|---|

TID 1009 Subject Context, Specimen

Identifies (and optionally describes) a specimen that is the subject.

Type: Extensible
Order: Significant

Root: No

Table TID 1009. Subject Context, Specimen

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|----|----------|---|---|
| 1 | | | UIDREF | EV (121039, DCM, "Specimen UID") | 1 | U | | |
| 2 | | | INCLUDE | DTID 1007 "Subject Context, Patient" | 1 | UC | IFF the source of the specimen is a human or animal patient | |
| 3 | | | TEXT | EV (121041, DCM, "Specimen Identifier") | 1 | U | | |
| 4 | | | TEXT | EV (111724, DCM, "Issuer of Specimen Identifier") | 1 | U | | See Content Item descriptions |
| 5 | | | CODE | EV (R-00254, SRT, "Specimen Type") | 1 | U | | DCID 8103 "Anatomic Pathology Specimen Types" |
| 6 | | | TEXT | EV (111700, DCM, "Specimen Container Identifier") | 1 | U | | |

Content Item Descriptions

| | |
|-----------|--|
| Rows 5, 6 | The Issuer of Specimen Identifier shall be formatted in accordance with the HL7 v2 Hierarchic Designator data type (see HL7 v2.6 Section 2.A.33), i.e., [<i>Namespace ID</i>] ^ [<i>Universal ID</i> ^ <i>Universal ID Type</i>] |
|-----------|--|

TID 1010 Subject Context, Device

Identifies (and optionally describes) a device that is the subject of observations.

Type: Extensible
Order: Significant
Root: No

Table TID 1010. Subject Context, Device

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|---|----|----------|-----------|----------------------|
| 1 | | | TEXT | EV (121193, DCM, "Device Subject Name") | 1 | M | | |
| 2 | | | UIDREF | EV (121198, DCM, "Device Subject UID") | 1 | U | | |
| 3 | | | TEXT | EV (121194, DCM, "Device Subject Manufacturer") | 1 | U | | |
| 4 | | | TEXT | EV (121195, DCM, "Device Subject Model Name") | 1 | U | | |
| 5 | | | TEXT | EV (121196, DCM, "Device Subject Serial Number") | 1 | U | | |
| 6 | | | TEXT | EV (121197, DCM, "Device Subject Physical Location during observation") | 1 | U | | |

TID 1020 Person Participant

This Template describes a person participating in an activity as other than an observer or subject. E.g., for a dose report documenting an irradiating procedure, participants include the person administering the irradiation and the person authorizing the irradiation.

This Template is included with specific contextual parameters from a parent Template.

Table TID 1020. Parameters

| Parameter Name | Parameter Usage |
|-----------------------|---|
| \$PersonProcedureRole | Coded term or Context Group for the Concept Name that describes the nature of the person's participation in this procedure. |

Type: Extensible
Order: Significant
Root: No

Table TID 1020. Person Participant

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-------|---|----|----------|-----------|-------------------------------------|
| 1 | | | PNAME | EV (113870, DCM, "Person Name") | 1 | M | | |
| 2 | > | HAS PROPERTIES | CODE | EV (113875, DCM, "Person Role in Procedure") | 1 | M | | \$PersonProcedureRole |
| 3 | > | HAS PROPERTIES | TEXT | EV (113871, DCM, "Person ID") | 1 | U | | |
| 4 | > | HAS PROPERTIES | TEXT | EV (113872, DCM, "Person ID Issuer") | 1 | U | | |
| 5 | > | HAS PROPERTIES | TEXT | EV (113873, DCM, "Organization Name") | 1 | U | | |
| 6 | > | HAS PROPERTIES | CODE | EV (113874, DCM, "Person Role in Organization") | 1 | U | | BCID 7452 "Organizational Roles" |

Content Item Descriptions

| | |
|-------|---|
| Row 1 | The name of the person participating in the role identified in Row 2. |
| Row 2 | The procedural role played by the person in this procedure. |
| Row 6 | The organizational role played by the person in the organization. |

TID 1021 Device Participant

This Template describes a device participating in an activity as other than an observer or subject. E.g., for a dose report documenting an irradiating procedure, participants include the irradiating device.

This Template is included with specific contextual parameters from a parent Template.

Table TID 1021. Parameters

| Parameter Name | Parameter Usage |
|-----------------------|---|
| \$DeviceProcedureRole | Coded term or Context Group for the Concept Name that describes the nature of the device's participation in this procedure. |

Type: Extensible
Order: Significant
Root: No

Table TID 1021. Device Participant

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|--|----|----------|-----------|-----------------------|
| 1 | | | CODE | EV (113876, DCM, "Device Role in Procedure") | 1 | M | | \$DeviceProcedureRole |
| 2 | > | HAS PROPERTIES | TEXT | EV (113877, DCM, "Device Name") | 1 | U | | |
| 3 | > | HAS PROPERTIES | TEXT | EV (113878, DCM, "Device Manufacturer") | 1 | M | | |
| 4 | > | HAS PROPERTIES | TEXT | EV (113879, DCM, "Device Model Name") | 1 | M | | |
| 5 | > | HAS PROPERTIES | TEXT | EV (113880, DCM, "Device Serial Number") | 1 | M | | |
| 6 | > | HAS PROPERTIES | UIDREF | EV (121012, DCM, "Device Observer UID") | 1 | M | | |

Content Item Descriptions

| | |
|-------|--|
| Row 1 | If no Device Procedure Role is provided, BCID 7445 "Device Participating Roles" may be used. |
| Row 2 | This may be used for the name by which the organization manages the device. |

TID 1200 Language Designation

Defines a mechanism for specifying a language, optionally with designation of the country in which that language applies.

Note

- For example, the French language could be specified unmodified, or French as written in France or Canada could be distinguished.
- The language codes specified in CID 5000 "Languages" optionally allow the encoding of the country of language in the code value for the language. Encoding of the country of language in a separate subsidiary Concept Modifier Content Item is allowed for backward compatibility with previous editions of the Standard.

Type: Extensible
Order: Significant
Root: No

Table TID 1200. Language Designation

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|----|----------|-----------|-----------------------|
| 1 | | | CODE | EV (121045, DCM, "Language") | 1 | M | | DCID 5000 "Languages" |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121046, DCM, "Country of Language") | 1 | U | | DCID 5001 "Countries" |

TID 1201 Language of Value

Defines a mechanism for specifying the language in which the value of the parent Content Item (only) is written. Does not specify the language of the Concept Name of the parent Content Item, nor of any other descendants of the parent Content Item.

Note

The language codes specified in CID 5000 "Languages" optionally allow the encoding of the country of language in the code value for the language. Encoding of the country of language in a separate subsidiary Concept Modifier Content Item is allowed for backward compatibility with previous editions of the Standard.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 1201. Language of Value

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|----|----------|-----------|-----------------------|
| 1 | | HAS CONCEPT MOD | CODE | EV (121047, DCM, "Language of Value") | 1 | M | | DCID 5000 "Languages" |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121046, DCM, "Country of Language") | 1 | U | | DCID 5001 "Countries" |

TID 1202 Language of Name and Value

Defines a mechanism for specifying the language in which the value and the Concept Name of the parent Content Item (only) is written. Does not specify the language of any other descendants of the parent Content Item.

Note

The language codes specified in CID 5000 "Languages" optionally allow the encoding of the country of language in the code value for the language. Encoding of the country of language in a separate subsidiary Concept Modifier Content Item is allowed for backward compatibility with previous editions of the Standard.

Type: Extensible
Order: Significant
Root: No

Table TID 1202. Language of Name and Value

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|----|----------|-----------|-----------------------|
| 1 | | HAS CONCEPT MOD | CODE | EV (121048, DCM, "Language of Name and Value") | 1 | M | | DCID 5000 "Languages" |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121046, DCM, "Country of Language") | 1 | U | | DCID 5001 "Countries" |

TID 1204 Language of Content Item and Descendants

Defines a mechanism for specifying the language in which the value and the Concept Name of the parent Content Item and any other descendants of the parent Content Item is written.

Note

The language codes specified in CID 5000 "Languages" optionally allow the encoding of the country of language in the code value for the language. Encoding of the country of language in a separate subsidiary Concept Modifier Content Item is allowed for backward compatibility with previous editions of the Standard.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 1204. Language of Content Item and Descendants

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|----|----------|-----------|-----------------------|
| 1 | | HAS CONCEPT MOD | CODE | EV (121049, DCM, "Language of Content Item and Descendants") | 1 | M | | DCID 5000 "Languages" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|----|----------|-----------|-----------------------|
| 2 | > | HAS CONCEPT MOD | CODE | EV (121046, DCM, "Country of Language") | 1 | U | | DCID 5001 "Countries" |

TID 1210 Equivalent Meaning(s) of Concept Name

Defines a mechanism for specifying one or more equivalent meanings for the Concept Name of the parent Content Item.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 1210. Equivalent Meaning(s) of Concept Name

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|-----------|--|
| 1 | | HAS CONCEPT MOD | TEXT | EV (121050, DCM, "Equivalent Meaning of Concept Name") | 1-n | MC | XOR Row 3 | Plain text equivalent of code meaning of the concept name of the Content Item being modified, in the specified language from the specified country, using the default character set or a character set selected from Specified Character Set |
| 2 | > | | INCLUDE | DTID 1201 "Language of Value" | 1 | U | | |
| 3 | | HAS CONCEPT MOD | CODE | EV (121050, DCM, "Equivalent Meaning of Concept Name") | 1-n | MC | XOR Row 1 | |
| 4 | > | | INCLUDE | DTID 1201 "Language of Value" | 1 | U | | |

Note

A coded equivalent meaning for the Concept Name can also be included using the attribute Equivalent Code Sequence (0008,0121) in the Concept Name Code Sequence (0040,A043) (see Section 8.9 "Equivalent Code Sequence" in PS3.3), though the equivalent code(s) in the Equivalent Code Sequence (0008,0121) need not be the same as those in TID 1210.

TID 1211 Equivalent Meaning(s) of Value

Defines a mechanism for specifying one or more equivalent meanings for the Value of the parent Content Item.

Type: Extensible
Order: Significant
Root: No

Table TID 1211. Equivalent Meaning(s) of Value

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------------|---------|---|-----|----------|-----------|---|
| 1 | | HAS CONCEPT MOD | TEXT | EV (121051, DCM, "Equivalent Meaning of Value") | 1-n | MC | XOR Row 3 | Plain text equivalent of code meaning of the value of the Content Item being modified, in the specified language from the specified country, using the default character set or a character set selected from Specified Character Set |
| 2 | > | | INCLUDE | DTID 1201 "Language of Value" | 1 | U | | |
| 3 | | HAS CONCEPT MOD | CODE | EV (121051, DCM, "Equivalent Meaning of Value") | 1-n | MC | XOR Row 1 | |
| 4 | > | | INCLUDE | DTID 1201 "Language of Value" | 1 | U | | |

Note

- For example, to describe a longer, more meaningful equivalent (in the same language) for a procedure code than is defined in a coding scheme:

CODE: (121023, DCM, "Procedure Code") = (50291CC, ICD10PCS, "IMAGING:CNS:CT:SELLA:LOWOSMOLAR:IT, U, E:2PLANE3D")

> *HAS CONCEPT MOD* TEXT: (121051, DCM, "Equivalent meaning of value") = "imaging study central nervous system of the sella turcica/pituitary gland with low osmolar contrast intrathecal, unenhanced and enhanced, in two planes with 3D reconstructions"

- For example, to specify a concept name and value in both French and English in Canada:

CODE:(T-D0005, SRT, "Anatomical structure") = (T-04000, SRT, "Breast")

> *HAS CONCEPT MOD* CODE: (121048, DCM, "Language of name and value") = (en-CA, RFC3066, "English, Canada")

> *HAS CONCEPT MOD* CODE: (121050, DCM, "Equivalent meaning of concept name") = (T-D0005, SRT, "Structure de l'anatomie")

>> *HAS CONCEPT MOD* CODE: (121047, DCM, "Langue de la valeur") = (fr-CA, RFC3066, "Français, Canadien")

> *HAS CONCEPT MOD* CODE: (121051, DCM, "Equivalent meaning of value") = (T-04000, SRT, "Sein")

>> *HAS CONCEPT MOD* CODE: (121047, DCM, "Langue de la valeur") = (fr-CA, RFC3066, "Français, Candie")

3. A coded equivalent meaning for the Concept Value of a CODE Content Item can also be included using the attribute Equivalent Code Sequence (0008,0121) in the Concept Code Sequence (0040, A168) (see Section 8.9 "Equivalent Code Sequence" in PS3.3).

TID 1350 Negation Modifier, Presence of Finding

Concept Name Modifier for negation of the presence of a finding represented by a post-coordinated concept.

Note

- For example, negation modifier applied to "distention" in the post-coordinated structure:

CODE: "anatomic location" = "bile duct"

> HAS PROPERTY CODE: "morphology" = "distention"

>> HAS CONCEPT MOD CODE: "presence of property" = "absent"

means: "bile duct distention not present"

- The presence-negation modifier modifies the entire post-coordinated concept, not just the Source Content Item of the HAS CONCEPT MOD relationship. The entire branch of the tree from the Content Item is included in the post-coordinated structure that is negated.

Type: Extensible
Order: Significant
Root: No

Table TID 1350. Negation Modifier, Presence of Finding

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|----|----------|-----------|------------------------------|
| 1 | | HAS CONCEPT MOD | CODE | EV (121052, DCM, "Presence of property") | 1 | M | | DCID 240 "Present-Absent" |

TID 1400 Linear Measurement

Type: Extensible
Order: Significant
Root: No

Table TID 1400. Linear Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|------------------------------------|-----|----------|-----------|--|
| 1 | | | NUM | DCID 7470 "Linear Measurements" | 1 | M | | UNITS = DCID 7460 "Units of Linear Measurement" |
| 2 | > | INFERRED FROM | SCoord | EV (121055, DCM, "Path") | 1 | UC | XOR Row 5 | GRAPHIC TYPE = {POLYLINE, CIRCLE, ELLIPSE} |
| 3 | >> | R-SELECTED FROM | IMAGE | | 1 | MC | XOR Row 4 | |
| 4 | >> | SELECTED FROM | IMAGE | | 1 | MC | XOR Row 3 | |
| 5 | > | INFERRED FROM | SCoord | EV (121230, DCM, "Path Vertex") | 2-n | UC | XOR Row 2 | GRAPHIC TYPE = {POINT} |
| 6 | >> | R-SELECTED FROM | IMAGE | | 1 | MC | XOR Row 7 | |
| 7 | >> | SELECTED FROM | IMAGE | | 1 | MC | XOR Row 6 | |
| 8 | > | HAS OBS CONTEXT | INCLUDE | DTID 4108 "Tracking Identifier" | 1 | U | | |

Content Item Descriptions

| | |
|-------|---|
| Row 2 | <p>Path shall represent the measured path or a projection of the measured path in the image. The Graphic Type (0070,0023) of the Path SCoord shall be:</p> <ul style="list-style-type: none"> an open POLYLINE with two different points (to measure length, diameter, distance, proximity, etc), a CIRCLE or ELLIPSE (to measure circumference) or an open or closed POLYLINE (closed polygon) to measure path length (open) or perimeter (closed). |
|-------|---|

| | |
|---------------------|--|
| Row 5 "Path Vertex" | A measured path that traverses two or more images (e.g., the ends of the path are in different cross-sectional plane images) shall be identified by vertices along the path. The Path Vertices shall be ordered by the order of their SCOORD Content Items to identify the measured path. The Graphic Type (0070,0023) of each SCOORD shall be POINT |
|---------------------|--|

TID 1401 Area Measurement

Type: Extensible
Order: Significant
Root: No

Table TID 1401. Area Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|------------------|---------|---|----|----------|--|--|
| 1 | | | NUM | DCID 7471 "Area Measurements" | 1 | M | | Value shall be > 0 UNITS = DCID 7461 "Units of Area Measurement" |
| 2 | > | INFERRED FROM | SCOORD | EV (121056, DCM, "Area Outline") | 1 | MC | IF concept name of Row 1 is (G-A16A, SRT, "Area of defined region"), and IFF Row 5 or 6 not present. | GRAPHIC TYPE = not {MULTIPOINT} |
| 3 | >> | R-SELECTED FROM | IMAGE | | 1 | MC | XOR Row 4 | |
| 4 | >> | SELECTED FROM | IMAGE | | 1 | MC | XOR Row 3 | |
| 5 | > | INFERRED FROM | IMAGE | EV (121214, DCM, "Referenced Segmentation Frame") | 1 | MC | IF concept name of Row 1 is (G-A16A, SRT, "Area of defined region"), and IFF Row 2 or 6 not present. | Reference shall be to a Segmentation Image, with a single value specified in Referenced Frame Number |
| 6 | > | R- INFERRED FROM | IMAGE | | 1 | MC | IF concept name of Row 1 is (G-A16A, SRT, "Area of defined region"), and IFF Row 2 or 5 not present. | Reference shall be to a Segmentation Image, with a single value specified in Referenced Frame Number |
| 7 | > | HAS PROPERTIES | CODE | EV (G-C036, SRT, "Measurement Method") | 1 | U | | DCID 7473 "General Area Calculation Methods" |
| 8 | > | HAS OBS CONTEXT | INCLUDE | DTID 4108 "Tracking Identifier" | 1 | U | | |

Content Item Descriptions

| | |
|----------------------|--|
| Row 2 "Area Outline" | A Graphic Type of POINT implies that the object is a single pixel and the object's area is the area of the pixel. Otherwise the type shall be a closed POLYLINE (start and end point the same) or a CIRCLE or an ELLIPSE. |
| Rows 5, 6 | <p>Referenced Frame Number (0008,1160) is an attribute of the IMAGE Content Item.</p> <p>If the Referenced Segmentation SOP Instance has Segmentation Type (0062,0001) value BINARY, it identifies the area of defined (measured) region by pixel values in the referenced frame with value 1. For Segmentation Type value FRACTIONAL, the area is computed by an implementation dependent method.</p> <p>Frame number shall be specified even if the Segmentation SOP Instance has only a single frame.</p> |

| | |
|-------|--|
| Row 8 | The values of (112039, DCM, "Tracking Identifier") and (112040, DCM, "Tracking Unique Identifier"), if present, shall match the corresponding values of Tracking ID (0062,0020) and Tracking UID (0062,0021), if present, in the corresponding Segment of any Segmentation instance referenced in Row 5. |
|-------|--|

TID 1402 Volume Measurement

Type: Extensible
Order: Significant
Root: No

Table TID 1402. Volume Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|------------------|---------|--|-----|----------|--------------|---|
| 1 | | | NUM | DCID 7472 "Volume Measurements" | 1 | M | | Value shall be > 0 UNITS = DCID 7462 "Units of Volume Measurement" |
| 2 | > | INFERRED FROM | SCOORD | EV (121057, DCM, "Perimeter Outline") | 1-n | UC | XOR row 5, 6 | GRAPHIC TYPE = not {MULTIPOINT} |
| 3 | >> | R-SELECTED FROM | IMAGE | | 1 | MC | XOR Row 4 | |
| 4 | >> | SELECTED FROM | IMAGE | | 1 | MC | XOR Row 3 | |
| 5 | > | INFERRED FROM | IMAGE | EV (121191, DCM, "Referenced Segment") | 1 | UC | XOR row 2, 6 | Reference shall be to a Segmentation Image, with a value specified in Referenced Segment Number |
| 6 | > | R- INFERRED FROM | IMAGE | | 1 | UC | XOR row 2, 5 | Reference shall be to a Segmentation Image, with a value specified in Referenced Segment Number |
| 7 | > | HAS PROPERTIES | CODE | EV (G-C036, SRT, "Measurement Method") | 1 | U | | DCID 7474 "General Volume Calculation Methods" |
| 8 | > | HAS OBS CONTEXT | INCLUDE | DTID 4108 "Tracking Identifier" | 1 | U | | |

Content Item Descriptions

| | |
|---------------------------|--|
| Row 2 "Perimeter Outline" | <p>The two dimensional perimeter of the volume's intersection with or projection into the image. A Graphic Type of POINT implies that the volume's intersection or projection in a plane is a single pixel. A single pixel projection perimeter cannot cause a volume calculation to become 0.</p> <p>Otherwise the type shall be a closed POLYLINE (start and end point the same) or a CIRCLE or an ELLIPSE.</p> |
| Rows 5, 6 | <p>Referenced Segment Number (0062,000B) is an attribute of the IMAGE Content Item.</p> <p>If the Referenced Segmentation SOP Instance has Segmentation Type (0062,0001) value BINARY, it identifies the defined (measured) volume by pixel/voxel values in the frames of the referenced segment with value 1. For Segmentation Type value FRACTIONAL, the volume is computed by an implementation dependent method.</p> <p>Segment number shall be specified even if the Segmentation SOP Instance has only a single segment.</p> |
| Row 8 | The values of (112039, DCM, "Tracking Identifier") and (112040, DCM, "Tracking Unique Identifier"), if present, shall match the corresponding values of Tracking ID (0062,0020) and Tracking UID (0062,0021), if present, in the corresponding Segment of any Segmentation instance referenced in Row 5. |

TID 1404 Numeric Measurement

Type: Extensible
 Order: Significant
 Root: No

Table TID 1404. Numeric Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|--------------|--|
| 1 | | | NUM | No baseline CID | 1 | M | | UNITS = DCID 82 "Units of Measurement" |
| 2 | > | INFERRED FROM | SCOORD | No baseline CID | 1-n | UC | XOR Row 5, 6 | |
| 3 | >> | R-SELECTED FROM | IMAGE | | 1 | MC | XOR Row 4 | |
| 4 | >> | SELECTED FROM | IMAGE | | 1 | MC | XOR Row 3 | |
| 5 | > | R-INFERRED FROM | IMAGE | BCID 7003 "Diagnostic Imaging Report Purposes of Reference" | 1-n | UC | XOR Row 2, 6 | |
| 6 | > | INFERRED FROM | IMAGE | BCID 7003 "Diagnostic Imaging Report Purposes of Reference" | 1-n | UC | XOR Row 2, 5 | |
| 7 | > | HAS OBS CONTEXT | INCLUDE | DTID 4108 "Tracking Identifier" | 1 | U | | |

Content Item Descriptions

| | |
|-----------|--|
| Row 2 | The SCOORD may indicate the points or area where the measurement was taken (e.g., a POINT showing the pixel location of a density measurement, or an open POLYLINE of three points showing the calculation of an angle). |
| Rows 3, 5 | Valid only in IODs that permit relationships by-reference. |

TID 1406 Three Dimensional Linear Measurement

Type: Extensible
 Order: Significant
 Root: No

Table TID 1406. Three Dimensional Linear Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|----------|---------------------------------|----|----------|-----------|---|
| 1 | | | NUM | DCID 7470 "Linear Measurements" | 1 | M | | UNITS = DCID 7460 "Units of Linear Measurement" |
| 2 | > | INFERRED FROM | SCOORD3D | EV (121055, DCM, "Path") | 1 | M | | GRAPHIC TYPE = {POLYLINE, ELLIPSE, POLYGON} |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 4108 "Tracking Identifier" | 1 | U | | |

Content Item Descriptions

| | |
|-----------|--|
| Rows 5, 6 | <p>Path shall represent the measured path in a reference coordinate space. The Graphic Type (0070,0023) of the Path SCOORD3D shall be:</p> <ul style="list-style-type: none"> • an open POLYLINE with two or more different (x,y,z) triplets (to measure length, diameter, distance, proximity, etc.), • an ELLIPSE (to measure circumference) or • a closed POLYGON to measure perimeter, where the (x,y,z) triplets are coplanar. |
|-----------|--|

TID 1410 Planar ROI Measurements

This Template provides a general structure to report one or more measurements for some metric, e.g., density, flow, or concentration, over a planar region of interest in an image. The ROI may be specified by an SCOORD on an image, or by a Segmentation Image.

Table TID 1410. Parameters

| | |
|----------------------------|--|
| \$Measurement | Coded term or Context Group for Concept Name of measurement |
| \$Units | Units for the measurement |
| \$ModType | Modifier Name for Concept Name of measurement |
| \$ModValue | Modifier Value for Concept Name of measurement |
| \$Method | Value for Measurement Method |
| \$Derivation | Value for Measurement Derivation |
| \$TargetSite | Value for Anatomic Location of measurement |
| \$TargetSiteMod | Modifier Value for Anatomic Location of measurement |
| \$Equation | Coded term or Context Group for the equation or table from which the measurement was derived or computed |
| \$RefAuthority | Bibliographic reference or authority for statistical properties of a reference population |
| \$RangeAuthority | Bibliographic reference or authority for the normal range of the measurement |
| \$DerivationParameter | Coded term or Context Group for Concept Name of a derivation parameter |
| \$DerivationParameterUnits | Units of derivation parameter |
| \$QualitativeEvaluations | Evaluations encoded with code or text responses |
| \$FindingType | Type of the finding |

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1410. Planar ROI Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (125007, DCM, "Measurement Group") | 1 | M | | |
| 1b | > | HAS OBS CONTEXT | TEXT | EV (C67447, NCIt, "Activity Session") | 1 | U | | |
| 2 | > | HAS OBS CONTEXT | TEXT | DT (112039, DCM, "Tracking Identifier") | 1 | M | | |
| 3 | > | HAS OBS CONTEXT | UIDREF | EV (112040, DCM, "Tracking Unique Identifier") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|-----------|---|
| 3b | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1 | U | | \$FindingType |
| 4 | > | HAS OBS CONTEXT | INCLUDE | DTID 1502 "Time Point Context" | 1 | U | | |
| 5 | > | CONTAINS | SCOORD | EV (111030, DCM, "Image Region") | 1 | MC | XOR Row 7 | GRAPHIC TYPE = not {MULTIPOINT} |
| 6 | >> | SELECTED FROM | IMAGE | | 1 | M | | |
| 7 | > | CONTAINS | IMAGE | EV (121214, DCM, "Referenced Segmentation Frame") | 1 | MC | XOR Row 5 | Reference shall be to a Segmentation Image, with a single value specified in Referenced Frame Number, and with a single value specified in Referenced Segment Number |
| 8 | > | CONTAINS | IMAGE | EV (121233, DCM, "Source image for segmentation") | 1 | MC | IFF Row 7 | |
| 9 | > | CONTAINS | IMAGE | EV (121200, DCM, "Illustration of ROI") | 1 | U | | |
| 10 | > | CONTAINS | COMPOSITE | EV (126100, DCM, "Real World Value Map used for measurement") | 1 | U | | SOP Class UID shall be Real World Value Mapping Storage ("1.2.840.10008.5.1.4.1.1.67") |
| 11 | > | CONTAINS | INCLUDE | DTID 1419 "ROI Measurements" | 1 | M | | \$Measurement = \$Measurement \$Units = \$Units \$ModType = \$ModType \$ModValue = \$ModValue \$Method = \$Method \$Derivation = \$Derivation \$TargetSite = \$TargetSite \$TargetSiteMod = \$TargetSiteMod \$Equation = \$Equation \$RefAuthority = \$RefAuthority \$RangeAuthority = \$RangeAuthority \$DerivationParameter = \$DerivationParameter \$DerivationParameterUnits = \$DerivationParameterUnits |
| 12 | > | CONTAINS | CODE | \$QualitativeEvaluations | 1-n | U | | |
| 13 | > | CONTAINS | TEXT | \$QualitativeEvaluations | 1-n | U | | |

Content Item Descriptions

| | |
|-------------|---|
| Row 1b | Identifies the session during which the measurements were made. The NCI Thesaurus definition is "time, period, or term devoted to some activity". |
| Rows 2, 3 | The Tracking Identifier and Tracking Unique Identifier are defined as a text label or unique identifier (respectively) used for tracking a finding or feature, potentially across multiple reporting objects, over time. As such, they are distinct from the Observation UID (0040,A171), which is unique identifier of the specific Content Item and its subsidiary Content Items that constitute an individual observation, and would be different for different observations on different occasions of the same finding or feature. The values of these content items shall match the corresponding values of Tracking ID (0062,0020) and Tracking UID (0062,0021), if present, in the corresponding Segment of any Segmentation instance referenced in Row 7. |
| Row 3b | The type of the finding describes whatever entity (finding or feature) is identified by Rows 2 and 3. E.g., a finding might be a lesion, a tumor, or a reference region (as distinct from its anatomical location, which is encoded in a different content item (Finding Site). |
| Rows 6, 7 | Referenced Frame Number (0008,1160) is an attribute of the IMAGE Content Item, and shall be present with a single value. If the Referenced Segmentation SOP Instance has Segmentation Type (0062,0001) value BINARY, it identifies the area of defined (measured) region of interest by pixel values in the referenced frame with value 1. For Segmentation Type value FRACTIONAL, the area is computed by an implementation dependent method. Frame number shall be specified even if the Segmentation SOP Instance has only a single frame. |
| Row 8 | Identifies the source image that was segmented to identify the ROI, and whose properties are described in this container. |
| Row 9 | This referenced image may contain a "screen shot" illustrating a rendered version of the ROI. |
| Row 10 | The reference to an RWV in Row 10 allows measurements to be made in units that differ from the stored pixel values in the images referenced elsewhere in the Template. E.g., for a PET SUVbw measurement, the mapping from activity/concentration units in the referenced image that was used (and which may be reused for measurements in the future) may be encoded in a referenced RWV instance. This reference applies to any measurements in included Templates, unless overridden). |
| Rows 12, 13 | Allows encoding a flat list of name-value pairs that are coded questions with coded or text answers, for example, to record categorical observations related to the subject of the measurement group. |

TID 1411 Volumetric ROI Measurements

This Template provides a general structure to report one or more measurements for some metric, e.g., density, flow, or concentration, over a volumetric region of interest in a set of images or a Frame of Reference. The volumetric ROI may be specified by a set of SCOORDs on an image set representing a volume, by a volumetric Segmentation Image, by a volume defined in a Surface Segmentation, or by a SCOORD3D.

Table TID 1411. Parameters

| | |
|-----------------|--|
| \$Measurement | Coded term or Context Group for Concept Name of measurement |
| \$Units | Units for the measurement |
| \$ModType | Modifier Name for Concept Name of measurement |
| \$ModValue | Modifier Value for Concept Name of measurement |
| \$Method | Value for Measurement Method |
| \$Derivation | Value for Measurement Derivation |
| \$TargetSite | Value for Anatomic Location of measurement |
| \$TargetSiteMod | Modifier Value for Anatomic Location of measurement |
| \$Equation | Coded term or Context Group for the equation or table from which the measurement was derived or computed |
| \$RefAuthority | Bibliographic reference or authority for statistical properties of a reference population |

| | |
|----------------------------|--|
| \$RangeAuthority | Bibliographic reference or authority for the normal range of the measurement |
| \$DerivationParameter | Coded term or Context Group for Concept Name of a derivation parameter |
| \$DerivationParameterUnits | Units of derivation parameter |
| \$QualitativeEvaluations | Evaluations encoded with code or text responses |
| \$FindingType | Type of the finding |

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1411. Volumetric ROI Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|---------------------------------------|---|
| 1 | | | CONTAINER | EV (125007, DCM, "Measurement Group") | 1 | M | | |
| 1b | > | HAS OBS CONTEXT | TEXT | EV (C67447, NCIt, "Activity Session") | 1 | U | | |
| 2 | > | HAS OBS CONTEXT | TEXT | DT (112039, DCM, "Tracking Identifier") | 1 | M | | |
| 3 | > | HAS OBS CONTEXT | UIDREF | EV (112040, DCM, "Tracking Unique Identifier") | 1 | M | | |
| 3b | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1 | U | | \$FindingType |
| 4 | > | HAS OBS CONTEXT | INCLUDE | DTID 1502 "Time Point Context" | 1 | U | | |
| 5 | > | CONTAINS | SCoord | EV (111030, DCM, "Image Region") | 1-n | MC | XOR Rows 7, 10 | GRAPHIC TYPE = not {MULTIPOINT} |
| 6 | >> | SELECTED FROM | IMAGE | | 1 | M | | |
| 7 | > | CONTAINS | IMAGE | EV (121191, DCM, "Referenced Segment") | 1 | MC | XOR Rows 5, 10 | Reference shall be to a Segmentation Image or Surface Segmentation object, with a single value specified in Referenced Segment Number |
| 10 | > | CONTAINS | SCoord3D | EV (121231, DCM, "Volume Surface") | 1 | MC | XOR Rows 5, 7 | GRAPHIC TYPE = {ELLIPSOID} |
| 11 | > | CONTAINS | IMAGE | EV (121233, DCM, "Source image for segmentation") | 1-n | MC | XOR Row 12 and IFF (Row 7 or Row 10) | |
| 12 | > | CONTAINS | UIDREF | EV (121232, DCM, "Source series for segmentation") | 1 | MC | XOR Row 11 and IFF ((Row 7 or Row 10) | |
| 13 | > | CONTAINS | IMAGE | EV (121200, DCM, "Illustration of ROI") | 1-n | U | | |
| 14 | > | CONTAINS | COMPOSITE | EV (126100, DCM, "Real World Value Map used for measurement") | 1 | U | | SOP Class UID shall be Real World Value Mapping Storage ("1.2.840.10008.5.1.4.1.1.67") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|------------------------------|-----|----------|-----------|---|
| 15 | > | CONTAINS | INCLUDE | DTID 1419 "ROI Measurements" | 1 | M | | \$Measurement = \$Measurement \$Units = \$Units \$ModType = \$ModType \$ModValue = \$ModValue \$Method = \$Method \$Derivation = \$Derivation \$TargetSite = \$TargetSite \$TargetSiteMod = \$TargetSiteMod \$Equation = \$Equation \$RefAuthority = \$RefAuthority \$RangeAuthority = \$RangeAuthority \$DerivationParameter = \$DerivationParameter \$DerivationParameterUnits = \$DerivationParameterUnits |
| 16 | > | CONTAINS | CODE | \$QualitativeEvaluations | 1-n | U | | |
| 17 | > | CONTAINS | TEXT | \$QualitativeEvaluations | 1-n | U | | |

Content Item Descriptions

| | |
|-----------|---|
| Row 1b | Identifies the session during which the measurements were made. The NCI Thesaurus definition is "time, period, or term devoted to some activity". |
| Rows 2, 3 | The Tracking Identifier and Tracking Unique Identifier are defined as a text label or unique identifier (respectively) used for tracking a finding or feature, potentially across multiple reporting objects, over time. As such, they are distinct from the Observation UID (0040,A171), which is unique identifier of the specific Content Item and its subsidiary Content Items that constitute an individual observation, and would be different for different observations on different occasions of the same finding or feature. The values of these content items shall match the corresponding values of Tracking ID (0062,0020) and Tracking UID (0062,0021), if present, in the corresponding Segment of any Segmentation instance referenced in Row 7. |
| Row 3b | The type of the finding describes whatever entity (finding or feature) is identified by Rows 2 and 3. E.g., a finding might be a lesion, a tumor, or a reference region (as distinct from its anatomical location, which is encoded in a different content item (Finding Site). |

| | |
|-------------|---|
| Rows 6, 7 | <p>Referenced Segment Number (0062,000B) is an attribute of the IMAGE Content Item, and shall be present with a single value.</p> <p>If the Referenced SOP Instance is a Segmentation Image, it shall have a defined Frame of Reference. If it has Segmentation Type (0062,0001) value BINARY, it identifies the volume of defined (measured) region of interest by voxel values in the referenced segment with value 1. If it has Segmentation Type value FRACTIONAL, the volume is defined by an implementation dependent method.</p> <p>If the referenced SOP Instance is a Surface Segmentation, the referenced segment shall constitute a finite volume. It identifies the volume of the defined (measured) region of interest by the interior of the finite volume.</p> <p>Segment number shall be specified even if the Segmentation SOP Instance has only a single segment.</p> |
| Row 11 | Identifies the source images that were segmented to identify the ROI, when, for example a subset of images in a series was used. |
| Row 12 | Identifies the source series of images that were segmented to identify the ROI, when, for example an entire set of images in a series was used. |
| Row 13 | These referenced images may contain "screen shot" illustrating rendered versions of the ROI. |
| Row 14 | The reference to an RWV in Row 14 allows measurements to be made in units that differ from the stored pixel values in the images referenced elsewhere in the Template. E.g., for a PET SUVbw measurement, the mapping from activity/concentration units in the referenced image that was used (and which may be reused for measurements in the future) may be encoded in a referenced RWV instance. This reference applies to any measurements in included Templates, unless overridden). |
| Rows 16, 17 | Allows encoding a flat list of name-value pairs that are coded questions with coded or text answers, for example, to record categorical observations related to the subject of the measurement group. |

TID 1419 ROI Measurements

This Template encodes measurements for some metric, e.g., density, flow, or concentration.

Table TID 1419. Parameters

| | |
|----------------------------|--|
| \$Measurement | Coded term or Context Group for Concept Name of measurement |
| \$Units | Units for the measurement |
| \$ModType | Modifier Name for Concept Name of measurement |
| \$ModValue | Modifier Value for Concept Name of measurement |
| \$Method | Value for Measurement Method |
| \$Derivation | Value for Measurement Derivation |
| \$TargetSite | Value(s) for Anatomic Location of measurement |
| \$TargetSiteMod | Modifier Value for Anatomic Location of measurement |
| \$Equation | Coded term or Context Group for the equation or table from which the measurement was derived or computed |
| \$RefAuthority | Bibliographic reference or authority for statistical properties of a reference population |
| \$RangeAuthority | Bibliographic reference or authority for the normal range of the measurement |
| \$DerivationParameter | Coded term or Context Group for Concept Name of a derivation parameter |
| \$DerivationParameterUnits | Units of derivation parameter |

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1419. ROI Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|------------|--|
| 1 | | HAS CONCEPT MOD | CODE | EV (G-C036, SRT, "Measurement Method") | 1 | U | | \$Method |
| 2 | | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1-n | U | | \$TargetSite |
| 3 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 244 "Laterality" |
| 4 | > | HAS CONCEPT MOD | CODE | DT (G-A1F8, SRT, "Topographical modifier") | 1 | U | | \$TargetSiteMod |
| 5 | | | NUM | \$Measurement | 1-n | M | | UNITS = \$Units |
| 6 | > | HAS CONCEPT MOD | CODE | \$ModType | 1-n | U | | \$ModValue |
| 7 | > | HAS CONCEPT MOD | CODE | EV (G-C036, SRT, "Measurement Method") | 1 | U | | \$Method |
| 8 | > | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | U | | \$Derivation |
| 9 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1-n | U | | \$TargetSite |
| 10 | >> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 244 "Laterality" |
| 11 | >> | HAS CONCEPT MOD | CODE | DT (G-A1F8, SRT, "Topographical modifier") | 1 | U | | \$TargetSiteMod |
| 12 | > | HAS PROPERTIES | INCLUDE | DTID 310 "Measurement Properties" | 1 | U | | \$RefAuthority = \$RefAuthority \$RangeAuthority = \$RangeAuthority |
| 13 | > | INFERRED FROM | NUM | \$DerivationParameter | 1-n | UC | XOR Row 14 | \$DerivationParameterUnits |
| 14 | > | R-INFERRED FROM | NUM | \$DerivationParameter | 1-n | UC | XOR Row 13 | \$DerivationParameterUnits |
| 15 | > | INFERRED FROM | INCLUDE | DTID 315 "Equation or Table" | 1 | UC | XOR Row 16 | \$Equation = \$Equation |
| 16 | > | INFERRED FROM | TEXT | DCID 228 "Equation or Table" | 1 | UC | XOR Row 15 | |
| 17 | > | | INCLUDE | DTID 1000 "Quotation" | 1 | U | | |
| 18 | > | HAS CONCEPT MOD | TEXT | EV (121050, DCM, "Equivalent Meaning of Concept Name") | 1 | U | | |
| 19 | > | CONTAINS | COMPOSITE | EV (126100, DCM, "Real World Value Map used for measurement") | 1 | U | | SOP Class UID shall be Real World Value Mapping Storage ("1.2.840.10008.5.1.4.1.1.67") |

Content Item Descriptions

| | |
|-------------------------------------|--|
| Rows 2, 9 -9 | <p>Finding site</p> <p>Finding site may be multiple when a region of interest spans multiple anatomical locations and there is not a single pre-coordinated code describing the combination of locations. E.g., when a malignant, inflammatory or traumatic process spans actual or defined anatomical boundaries. There is no requirement that the multiple locations be contiguous.</p> <p>may be multiple when a region of interest spans multiple anatomical locations and there is not a single pre-coordinated code describing the combination of locations. E.g., when a malignant, inflammatory or traumatic process spans actual or defined anatomical boundaries. There is no requirement that the multiple locations be contiguous.</p> |
| Row 5 | Specifies the metric for which measurements are reported, e.g., density, flow, or concentration. This metric is computed at each sample point (e.g., pixel or voxel) in an ROI (defined in the invoking Template), but those individual point measurements are not encoded. Instead, just the summary measurements for the ROI are encoded, and the means of computing a single value is defined in Row 8 Derivation (e.g., mean). |
| Rows 1, 2, 3, 4, 6, 7, 8, 9, 10, 11 | The HAS CONCEPT MOD items allow the explicit definition of terms for post-coordination of the measurement concept name. Additional post-coordinated modifier terms may be included in a SOP Instance based on this Template, in accordance with section 6.2.4, or as defined by Templates that invoke this Template and explicitly define additional post-coordinated modifiers. |
| Rows 13, 14 | The INFERRED FROM items allow the specification (by-value or by-reference) of numeric values that were used in the derivation of the numeric measurement of Row 1. The nature of the inference is not explicitly conveyed; it may be implicit in the Concept Names of the measurements. Inference by-reference is valid only in SOP Classes that permit the INFERRED FROM relationship by-reference. |
| Row 18 | Equivalent Meaning of Concept Name allows the creating application to specify the preferred composed concept name representing the measurement and the associated post-coordinated concept modifiers. The concept modifiers may include those specified in this Template, in a Template that invokes this Template, or at the option of the creating application in accordance with section 6.2.4. This composed concept name may be rendered by a display application. |
| Row 19 | The reference to an RWV in Row 19 allows measurements to be made in units that differ from the stored pixel values in the images referenced in the parent Template. E.g., for a PET SUVbw measurement, the mapping from activity/concentration units in the referenced image that was used (and which may be reused for measurements in the future) may be encoded in a referenced RWV instance. This reference overrides any reference in an including Template (such as for a Measurement Group). |

TID 1420 Measurements Derived From Multiple ROI Measurements

This Template encodes measurements for some metric, e.g., density, flow, or concentration, which are acquired over some defined sampling (e.g., over successive time slots in a dynamic contrast enhanced acquisition).

Table TID 1420. Parameters

| | |
|---------------------------|--|
| \$Measurement | Coded term or Context Group for Concept Name of measurement |
| \$MeasurementUnits | Units for the measurement |
| \$ModType | Modifier Name for Concept Name of measurement |
| \$ModValue | Modifier Value for Concept Name of measurement |
| \$Method | Value for Measurement Method |
| \$Derivation | Value for Measurement Derivation |
| \$TargetSite | Value for Anatomic Location of measurement |
| \$TargetSiteMod | Modifier Value for Anatomic Location of measurement |
| \$Equation | Coded term or Context Group for the equation or table from which the measurement was derived or computed |
| \$RefAuthority | Bibliographic reference or authority for statistical properties of a reference population |
| \$RangeAuthority | Bibliographic reference or authority for the normal range of the measurement |
| \$StatisticalRefAuthority | Bibliographic reference or authority for statistical properties of a reference population |

| | |
|-----------------------------|--|
| \$StatisticalRangeAuthority | Bibliographic reference or authority for the normal range of the measurement |
| \$DerivationParameter | Coded term or Context Group for Concept Name of a derivation parameter |
| \$DerivationParameterUnits | Units of derivation parameter |

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1420. Measurements Derived From Multiple ROI Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|--------------------|---------|---|-----|----------|--------------|---|
| 1 | | | NUM | DCID 7465 "Measurements Derived From Multiple ROI Measurements" | 1-n | M | | |
| 2 | > | R-INFERRED FROM | INCLUDE | DTID 1410 "Planar ROI Measurements" | 1-n | MC | XOR Row 3 | \$Measurement = \$Measurement \$Units = \$MeasurementUnits \$ModType = \$ModType \$ModValue = \$ModValue \$Method = \$Method \$Derivation = \$Derivation \$TargetSite = \$TargetSite \$TargetSiteMod = \$TargetSiteMod \$Equation = \$Equation \$RefAuthority = \$RefAuthority \$RangeAuthority = \$RangeAuthority \$DerivationParameter = \$DerivationParameter \$DerivationParameterUnits = \$DerivationParameterUnits |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|-----------|--|
| 3 | > | R-INFERRED FROM | INCLUDE | DTID 1411 "Volumetric ROI Measurements" | 1-n | MC | XOR Row 2 | \$Measurement = \$Measurement \$Units = \$MeasurementUnits \$ModType = \$ModType \$ModValue = \$ModValue \$Method = \$Method \$Derivation = \$Derivation \$TargetSite = \$TargetSite \$TargetSiteMod = \$TargetSiteMod \$Equation = \$Equation \$RefAuthority = \$RefAuthority \$RangeAuthority = \$RangeAuthority \$DerivationParameter = \$DerivationParameter \$DerivationParameterUnits = \$DerivationParameterUnits |
| 4 | > | HAS PROPERTIES | INCLUDE | DTID 310 "Measurement Properties" | 1 | U | | \$RefAuthority = \$RefAuthority \$RangeAuthority = \$RangeAuthority |

Content Item Descriptions

| | |
|-----------|---|
| Row 1 | Specifies the type of derived measurement reported, e.g., the mean of the individual ROI mean density values. Note that the units may be different from the units in the ROI measurements |
| Rows 2, 3 | The measurement values of each ROI that contributes to the derived measurement, e.g., the mean density within an ROI. These are specified by reference, so as to not have to repeat the ROI information when it contributes to multiple derived measurements (e.g., if both mean and SD of ROI mean density values were specified). |

TID 1500 Measurement Report

This Root Template encodes a list of Measurement Groups each containing lists of measurements, together with any derived measurements.

Each Measurement Group is identified by Tracking ID and UIDs.

An image library is available to describe characteristics of the images referenced by the measurements, if any.

Type: Extensible
Order: Non-Significant
Root: Yes

Table TID 1500. Measurement Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------------------------|---|
| 1 | | | CONTAINER | DCID 7021 "Measurement Report Document Titles" | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |
| 4 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1-n | M | | BCID 100 "Quantitative Diagnostic Imaging Procedures" |
| 5 | > | CONTAINS | INCLUDE | DTID 1600 "Image Library" | 1 | M | | |
| 6 | > | CONTAINS | CONTAINER | EV (126010, DCM, "Imaging Measurements") | 1 | C | IF row 10 and 12 are absent | |
| 7 | >> | CONTAINS | INCLUDE | DTID 1410 "Planar ROI Measurements" | 1-n | U | | \$Measurement = BCID 7469 "Generic Intensity and Size Measurements" \$Units = BCID 7181 "Abstract Multi-dimensional Image Model Component Units" \$Derivation = BCID 7464 "General Region of Interest Measurement Modifiers" \$Method = BCID 6147 "Response Criteria" |
| 8 | >> | CONTAINS | INCLUDE | DTID 1411 "Volumetric ROI Measurements" | 1-n | U | | \$Measurement = BCID 7469 "Generic Intensity and Size Measurements" \$Units = BCID 7181 "Abstract Multi-dimensional Image Model Component Units" \$Derivation = BCID 7464 "General Region of Interest Measurement Modifiers" \$Method = BCID 6147 "Response Criteria" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|----------------------------|---|
| 9 | >> | CONTAINS | INCLUDE | DTID 1501 "Measurement Group" | 1-n | U | | \$Measurement = BCID 7469 "Generic Intensity and Size Measurements" \$Units = BCID 7181 "Abstract Multi-dimensional Image Model Component Units" \$Derivation = BCID 7464 "General Region of Interest Measurement Modifiers" \$Method = BCID 6147 "Response Criteria" |
| 10 | > | CONTAINS | CONTAINER | EV (126011, DCM, "Derived Imaging Measurements") | 1 | C | IF row 6 and 12 are absent | |
| 11 | >> | CONTAINS | INCLUDE | DTID 1420 "Measurements Derived From Multiple ROI Measurements" | 1-n | U | | |
| 12 | > | CONTAINS | CONTAINER | EV (C0034375, UMLS, "Qualitative Evaluations") | 1 | C | IF row 6 and 10 are absent | |
| 13 | >> | CONTAINS | CODE | | 1-n | U | | |
| 14 | >> | CONTAINS | TEXT | | 1-n | U | | |

Content Item Descriptions

| | |
|-----------------|---|
| Rows 6, 10, 12 | The conditions require that at least one of the "heading" containers be present, though any of them may be present but empty. |
| Rows 7, 8, 9 | The baseline context groups defined allow for generic intensity and size measurements, regardless of the geometry of the ROI (e.g., linear distance can be measured on volumes, or volume can be estimated from a linear distance), and being baseline, do not constrain the invoker from using other appropriate concepts specific to the application. |
| Row 9 | A Measurement Group is used to contain one or more individual measurements that are invocations of TID 300, consistent with TIDs 1410 and 1411, which both already have Measurement Group containers as their roots. |
| Rows 12, 13, 14 | These Content Items allow encoding a flat list of name-value pairs that are coded questions with coded or text answers, for example, to record categorical observations related to the entire subject of the report rather than specific measurement groups. |

TID 1501 Measurement Group

This Template groups Measurements into a Measurement Group.

Each Measurement Group is identified by Tracking ID and UIDs, and may be described as having being made at a particular time point.

Measurement groups may contain various common measurement modifiers that are shared by all measurements in the group, such as method and finding site.

Table TID 1501. Parameters

| Parameter Name | Parameter Usage |
|----------------------------|--|
| \$Measurement | Coded term or Context Group for Concept Name of measurement |
| \$Units | Units of Measurement |
| \$ModType | Modifier Name for Concept Name of measurement |
| \$ModValue | Modifier Value for Concept Name of measurement |
| \$Method | Value for Measurement Method |
| \$Derivation | Value for Measurement Derivation |
| \$TargetSite | Value(s) for Anatomic Location of measurement |
| \$TargetSiteMod | Modifier Value for Anatomic Location of measurement |
| \$Equation | Coded term or Context Group for the equation or table from which the measurement was derived or computed |
| \$ImagePurpose | Purpose of Reference for an image used as a source of the measurement |
| \$WavePurpose | Purpose of Reference for a waveform used as a source of the measurement |
| \$RefAuthority | Bibliographic reference or authority for statistical properties of a reference population |
| \$RangeAuthority | Bibliographic reference or authority for the normal range of the measurement |
| \$DerivationParameter | Coded term or Context Group for Concept Name of a derivation parameter |
| \$DerivationParameterUnits | Units of derivation parameter |
| \$QualitativeEvaluations | Evaluations encoded with code or text responses |
| \$FindingType | Type of the finding |

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1501. Measurement Group

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|-----------------------|
| 1 | | CONTAINS | CONTAINER | EV (125007, DCM, "Measurement Group") | 1 | M | | |
| 1b | > | HAS OBS CONTEXT | TEXT | EV (C67447, NCIt, "Activity Session") | 1 | U | | |
| 2 | > | HAS OBS CONTEXT | TEXT | DT (112039, DCM, "Tracking Identifier") | 1 | M | | |
| 3 | > | HAS OBS CONTEXT | UIDREF | EV (112040, DCM, "Tracking Unique Identifier") | 1 | M | | |
| 3b | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1 | U | | \$FindingType |
| 4 | > | HAS OBS CONTEXT | INCLUDE | DTID 1502 "Time Point Context" | 1 | U | | |
| 5 | > | HAS CONCEPT MOD | CODE | EV (G-C036, SRT, "Measurement Method") | 1 | U | | \$Method |
| 6 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1-n | U | | \$TargetSite |
| 7 | >> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 244 "Laterality" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|-----------|---|
| 8 | >> | HAS CONCEPT MOD | CODE | DT (G-A1F8, SRT, "Topographical modifier") | 1 | U | | \$TargetSiteMod |
| 9 | > | CONTAINS | COMPOSITE | EV (126100, DCM, "Real World Value Map used for measurement") | 1 | U | | SOP Class UID shall be Real World Value Mapping Storage ("1.2.840.10008.5.1.4.1.1.67") |
| 10 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$Measurement = \$Measurement \$Units = \$Units \$ModType = \$ModType \$ModValue = \$ModValue \$Method = \$Method \$Derivation = \$Derivation \$TargetSite = \$TargetSite \$TargetSiteMod = \$TargetSiteMod \$Equation = \$Equation \$RefAuthority = \$RefAuthority \$RangeAuthority = \$RangeAuthority \$DerivationParameter = \$DerivationParameter \$DerivationParameterUnits = \$DerivationParameterUnits |
| 11 | > | CONTAINS | CODE | \$QualitativeEvaluations | 1-n | U | | |
| 12 | > | CONTAINS | TEXT | \$QualitativeEvaluations | 1-n | U | | |

Content Item Descriptions

| | |
|---------------|--|
| Row 1b | Identifies the session during which the measurements were made. The NCI Thesaurus definitions is "time, period, or term devoted to some activity". |
| Rows 2, 3, 10 | The included TID 300 already contains an optional inclusion of TID 1408 Tracking Identifier, which in turns allows for either or both Tracking Identifier and Tracking Unique Identifier Content Items; the intent of Rows 2 and 3 is not to send these Content Items twice, but rather to specialize their use such that their presence is mandatory, consistent with TIDs 1410 and 1411. |
| Row 3b | The type of the finding describes whatever entity (finding or feature) is identified by Rows 2 and 3. E.g., a finding might be a lesion, a tumor, or a reference region (as distinct from its anatomical location, which is encoded in a different content item (Finding Site). |

| | |
|-------------|---|
| Row 6 | Finding site |
| Row 6 | <p>Finding site may be multiple when a region of interest spans multiple anatomical locations and there is not a single pre-coordinated code describing the combination of locations. E.g., when a malignant, inflammatory or traumatic process spans actual or defined anatomical boundaries. There is no requirement that the multiple locations be contiguous.</p> <p>may be multiple when a region of interest spans multiple anatomical locations and there is not a single pre-coordinated code describing the combination of locations. E.g., when a malignant, inflammatory or traumatic process spans actual or defined anatomical boundaries. There is no requirement that the multiple locations be contiguous.</p> |
| Row 9 | The reference to an RWV in Row 9 allows measurements to be made in units that differ from the stored pixel values in the images referenced elsewhere in the Template. E.g., for a PET SUVbw measurement, the mapping from activity/concentration units in the referenced image that was used (and which may be reused for measurements in the future) may be encoded in a referenced RWV instance. This reference applies to any measurements in included Templates, unless overridden). |
| Rows 11, 12 | Allows encoding a flat list of name-value pairs that are coded questions with coded or text answers, for example, to record categorical observations related to the subject of the measurement group. |

TID 1502 Time Point Context

This Template describes information about the time point, for example, at which a measurement was obtained.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1502. Time Point Context

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|-----|----------|-----------|----------------------------------|
| 1 | | HAS OBS CONTEXT | TEXT | EV (126070, DCM, "Subject Time Point Identifier") | 1 | U | | |
| 2 | | HAS OBS CONTEXT | TEXT | EV (126071, DCM, "Protocol Time Point Identifier") | 1 | U | | |
| 3 | | HAS OBS CONTEXT | TEXT | EV (C2348792, UMLS, "Time Point") | 1 | M | | |
| 4 | | HAS OBS CONTEXT | CODE | EV (126072, DCM, "Time Point Type") | 1-n | U | | BCID 6146 "Time Point Types" |
| 5 | | HAS OBS CONTEXT | NUM | EV (126073, DCM, "Time Point Order") | 1 | U | | UNITS = EV (1, UCUM, "no units") |

Content Item Descriptions

| | |
|-------|---|
| Row 1 | Usually the same value as the Clinical Trial Time Point ID (0012,0050) attribute in the Clinical Trial Study Module, though not confined to clinical trial use. May or may not be human readable, and not required to be a DICOM UID. |
| Row 2 | All of the subjects within a treatment protocol that are examined at a particular scheduled time point (e.g., "baseline", "pre-treatment", "first post-treatment") will have the same Protocol Time Point Identifier, but different Subject Time Point Identifiers. However, in different protocols, the Protocol Time Point Identifiers for the same conceptual "time point" will be different. E.g., the "baseline" time point will have different Protocol Time Point Identifiers in different protocols. May or may not be human readable, and not required to be a DICOM UID. |
| Row 3 | Typically a short pre-defined label that has the same scope as Protocol Time Point Identifier (i.e., same conceptual time point within a treatment protocol) but is human-readable and understandable, e.g., "BASELINE" or "TP0", "TP1", etc. Usually the same value as Clinical Trial Time Point Description (0012,0051) attribute in the Clinical Trial Study Module, though not confined to clinical trial use. The Concept Name is selected as (C2348792, UMLS, "Time Point") (which is (C68568, NCIt, "Time Point"), defined as "a specific point in the time continuum, including those established relative to an event") in order to be compatible with external terminologies. |

| | |
|-------|---|
| Row 4 | More than one type is permitted, e.g., a time point may be "posttreatment" as well as "unscheduled" or "nadir", etc. |
| Row 5 | The order is expected to be monotonically increasing within a particular scope of usage, but is not required to start at 0 or 1, nor required to increase in increments of 1 or even the same increment (e.g., to allow for retrospective insertion of unscheduled time points). In clinical usage, the Time Point Order would be expected to be temporally increasing, but in a clinical trial may be a randomized reading order rather than a temporal order. |

TID 1600 Image Library

The Image Library contains references to images and selected attributes describing them that facilitate analysis without having to retrieve the entire set of referenced images.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1600. Image Library

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (111028, DCM, "Image Library") | 1 | M | | |
| 2 | > | CONTAINS | CONTAINER | EV (126200, DCM, "Image Library Group") | 1-n | U | | |
| 3 | >> | HAS ACQ CONTEXT | INCLUDE | DTID 1602 "Image Library Entry Descriptors" | 1 | U | | |
| 4 | >> | CONTAINS | INCLUDE | DTID 1601 "Image Library Entry" | 1-n | U | | |

TID 1601 Image Library Entry

Each instance of the Image Library Entry Template contains the Image SOP Class and Instance UUIDs, and selected attributes for an image that facilitate analysis without having to retrieve the entire set of referenced images.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1601. Image Library Entry

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|----|----------|-----------|----------------------|
| 1 | | | IMAGE | | 1 | M | | |
| 2 | > | HAS ACQ CONTEXT | INCLUDE | DTID 1602 "Image Library Entry Descriptors" | 1 | U | | |

TID 1602 Image Library Entry Descriptors

This Template contains selected attributes for an image or group of images. The descriptive information may be copied from images or derived.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1602. Image Library Entry Descriptors

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|----|----------|-----------|---------------------------------------|
| 1 | | HAS ACQ CONTEXT | CODE | EV (121139, DCM, "Modality") | 1 | U | | DCID 29 "Acquisition Modality" |
| 2 | | HAS ACQ CONTEXT | CODE | EV (123014, DCM, "Target Region") | 1 | U | | DCID 4031 "Common Anatomic Regions" |
| 3 | | HAS ACQ CONTEXT | CODE | EV (111027, DCM, "Image Laterality") | 1 | U | | DCID 244 "Laterality" |
| 4 | | HAS ACQ CONTEXT | DATE | EV (111060, DCM, "Study Date") | 1 | U | | |
| 5 | | HAS ACQ CONTEXT | TIME | EV (111061, DCM, "Study Time") | 1 | U | | |
| 6 | | HAS ACQ CONTEXT | DATE | EV (111018, DCM, "Content Date") | 1 | U | | |
| 7 | | HAS ACQ CONTEXT | TIME | EV (111019, DCM, "Content Time") | 1 | U | | |
| 8 | | HAS ACQ CONTEXT | DATE | EV (126201, DCM, "Acquisition Date") | 1 | U | | |
| 9 | | HAS ACQ CONTEXT | TIME | EV (126202, DCM, "Acquisition Time") | 1 | U | | |
| 10 | | HAS ACQ CONTEXT | UIDREF | EV (112227, DCM, "Frame of Reference UID") | 1 | U | | |
| 11 | | HAS ACQ CONTEXT | NUM | EV (110910, DCM, "Pixel Data Rows") | 1 | U | | UNITS = EV ({pixels}, UCUM, "pixels") |
| 12 | | HAS ACQ CONTEXT | NUM | EV (110911, DCM, "Pixel Data Columns") | 1 | U | | UNITS = EV ({pixels}, UCUM, "pixels") |
| 13 | | HAS ACQ CONTEXT | INCLUDE | DTID 1603 "Image Library Entry Descriptors for Projection Radiography" | 1 | U | | |
| 14 | | HAS ACQ CONTEXT | INCLUDE | DTID 1604 "Image Library Entry Descriptors for Cross-Sectional Modalities" | 1 | U | | |
| 15 | | HAS ACQ CONTEXT | INCLUDE | DTID 1605 "Image Library Entry Descriptors for CT" | 1 | U | | |
| 16 | | HAS ACQ CONTEXT | INCLUDE | DTID 1606 "Image Library Entry Descriptors for MR" | 1 | U | | |
| 17 | | HAS ACQ CONTEXT | INCLUDE | DTID 1607 "Image Library Entry Descriptors for PET" | 1 | U | | |

Content Item Descriptions

| | |
|---------------|---|
| Target Region | The value of Anatomic Region Sequence (0008,2218) in the Image IOD, or a code derived from Body Part Examined (0018,0015) using the mapping described in Annex L. |
|---------------|---|

TID 1603 Image Library Entry Descriptors for Projection Radiography

This Template contains selected attributes for a projection radiography image or group of such images. The descriptive information may be copied from images or derived.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1603. Image Library Entry Descriptors for Projection Radiography

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|-----|----------|-----------|-------------------------------------|
| 1 | | HAS ACQ CONTEXT | CODE | EV (111031, DCM, "Image View") | 1 | U | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111032, DCM, "Image View Modifier") | 1-n | U | | |
| 3 | | HAS ACQ CONTEXT | TEXT | EV (111044, DCM, "Patient Orientation Row") | 1 | U | | |
| 4 | | HAS ACQ CONTEXT | TEXT | EV (111043, DCM, "Patient Orientation Column") | 1 | U | | |
| 5 | | HAS ACQ CONTEXT | NUM | EV (111026, DCM, "Horizontal Pixel Spacing") | 1 | U | | UNITS = EV (mm, UCUM, "millimeter") |
| 6 | | HAS ACQ CONTEXT | NUM | EV (111066, DCM, "Vertical Pixel Spacing") | 1 | U | | UNITS = EV (mm, UCUM, "millimeter") |
| 7 | | HAS ACQ CONTEXT | NUM | EV (112011, DCM, "Positioner Primary Angle") | 1 | U | | UNITS = EV (deg, UCUM, "deg") |
| 8 | | HAS ACQ CONTEXT | NUM | EV (112012, DCM, "Positioner Secondary Angle") | 1 | U | | UNITS = EV (deg, UCUM, "deg") |

Content Item Descriptions

| | |
|---------------------------------|---|
| Patient Orientation Row | First (row) and second (column) components of Patient Orientation (0020,0020) in the Image IOD. See Section C.7.6.1.1.1 "Patient Orientation" in PS3.3. |
| Patient Orientation Column | |
| Horizontal Imager Pixel Spacing | The second component of Imager Pixel Spacing (0018,1164) in the Image IOD. See Section C.8.11.4 "DX Detector Module" in PS3.3. |
| Vertical Imager Pixel Spacing | The first component of Imager Pixel Spacing (0018,1164) in the Image IOD. See Section C.8.11.4 "DX Detector Module" in PS3.3. |

TID 1604 Image Library Entry Descriptors for Cross-Sectional Modalities

This Template contains selected attributes for a cross-sectional image or group of such images. The descriptive information may be copied from images or derived.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1604. Image Library Entry Descriptors for Cross-Sectional Modalities

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----|--|----|----------|-----------|-------------------------------------|
| 1 | | HAS ACQ CONTEXT | NUM | EV (111026, DCM, "Horizontal Pixel Spacing") | 1 | U | | UNITS = EV (mm, UCUM, "millimeter") |
| 2 | | HAS ACQ CONTEXT | NUM | EV (111066, DCM, "Vertical Pixel Spacing") | 1 | U | | UNITS = EV (mm, UCUM, "millimeter") |
| 3 | | HAS ACQ CONTEXT | NUM | EV (112226, DCM, "Spacing between slices") | 1 | U | | UNITS = EV (mm, UCUM, "millimeter") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----|--|----|----------|-----------|-------------------------------------|
| 4 | | HAS ACQ CONTEXT | NUM | EV (112225, DCM, "Slice Thickness") | 1 | U | | UNITS = EV (mm, UCUM, "millimeter") |
| 5 | | HAS ACQ CONTEXT | NUM | EV (110901, DCM, "Image Position (Patient) X") | 1 | U | | UNITS = EV (mm, UCUM, "millimeter") |
| 6 | | HAS ACQ CONTEXT | NUM | EV (110902, DCM, "Image Position (Patient) Y") | 1 | U | | UNITS = EV (mm, UCUM, "millimeter") |
| 7 | | HAS ACQ CONTEXT | NUM | EV (110903, DCM, "Image Position (Patient) Z") | 1 | U | | UNITS = EV (mm, UCUM, "millimeter") |
| 8 | | HAS ACQ CONTEXT | NUM | EV (110904, DCM, "Image Orientation (Patient) Row X") | 1 | U | | UNITS = EV ({-1:1}, UCUM, "{-1:1}") |
| 9 | | HAS ACQ CONTEXT | NUM | EV (110905, DCM, "Image Orientation (Patient) Row Y") | 1 | U | | UNITS = EV ({-1:1}, UCUM, "{-1:1}") |
| 10 | | HAS ACQ CONTEXT | NUM | EV (110906, DCM, "Image Orientation (Patient) Row Z") | 1 | U | | UNITS = EV ({-1:1}, UCUM, "{-1:1}") |
| 11 | | HAS ACQ CONTEXT | NUM | EV (110907, DCM, "Image Orientation (Patient) Column X") | 1 | U | | UNITS = EV ({-1:1}, UCUM, "{-1:1}") |
| 12 | | HAS ACQ CONTEXT | NUM | EV (110908, DCM, "Image Orientation (Patient) Column Y") | 1 | U | | UNITS = EV ({-1:1}, UCUM, "{-1:1}") |
| 13 | | HAS ACQ CONTEXT | NUM | EV (110909, DCM, "Image Orientation (Patient) Column Z") | 1 | U | | UNITS = EV ({-1:1}, UCUM, "{-1:1}") |

Content Item Descriptions

| | |
|---------------------------------|--|
| Horizontal Imager Pixel Spacing | The second component of Pixel Spacing (0028,0030) in the Image IOD. See Section 10.7.1.1 "Pixel Spacing" in PS3.3 and Section C.7.6.2 "Image Plane Module" in PS3.3. |
| Vertical Imager Pixel Spacing | The first component of Pixel Spacing (0028,0030) in the Image IOD. See Section 10.7.1.1 "Pixel Spacing" in PS3.3 and Section C.7.6.2 "Image Plane Module" in PS3.3. |

TID 1605 Image Library Entry Descriptors for CT

This Template contains selected attributes for a CT image or group of such images. The descriptive information may be copied from images or derived.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1605. Image Library Entry Descriptors for CT

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|----|----------|-----------|--|
| 1 | | HAS ACQ CONTEXT | CODE | EV (113820, DCM, "CT Acquisition Type") | 1 | U | | DCID 10013 "CT Acquisition Type" |
| 2 | | HAS ACQ CONTEXT | CODE | EV (113961, DCM, "Reconstruction Algorithm") | 1 | U | | DCID 10033 "CT Reconstruction Algorithm" |

Content Item Descriptions

| | |
|---------------------|--|
| CT Acquisition Type | A code derived from the value of Acquisition Type (0018,9302) in the Image IOD. See Section C.8.15.3.2 "CT Acquisition Type Macro" in PS3.3. |
|---------------------|--|

| | |
|--------------------------|--|
| Reconstruction Algorithm | A code derived from the value of Reconstruction Algorithm (0018,9315) in the Image IOD. See Section C.8.15.3.7 "CT Reconstruction Macro" in PS3.3. |
|--------------------------|--|

TID 1606 Image Library Entry Descriptors for MR

This Template contains selected attributes for a MR image or group of such images. The descriptive information may be copied from images or derived.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1606. Image Library Entry Descriptors for MR

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|----|----------|-----------|----------------------|
| 1 | | HAS ACQ CONTEXT | TEXT | EV (128230, DCM, "Pulse Sequence Name") | 1 | U | | |

Content Item Descriptions

| | |
|---------------------|---|
| Pulse Sequence Name | The value of Pulse Sequence Name (0018,9005) or Sequence Name (0018,0024) in the Image IOD. See Section C.8.13.4 "MR Pulse Sequence Module" in PS3.3. |
|---------------------|---|

TID 1607 Image Library Entry Descriptors for PET

This Template contains selected attributes for a PET image or group of such images. The descriptive information may be copied from images or derived.

Note

The content of this Template is similar to that in TID 15101 NM/PET Protocol Context, but is in the form of an SR Template rather than a Protocol Context Template, and the content items are not nested as modifiers. There is also some similarity to TID 3307 NM/PET Perfusion Measurement Group.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 1607. Image Library Entry Descriptors for PET

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|----------|--|----|----------|-----------|-------------------------------------|
| 1 | | HAS ACQ CONTEXT | CODE | EV (C-10072, SRT, "Radionuclide") | 1 | U | | DCID 4020 "PET Radionuclide" |
| 2 | | HAS ACQ CONTEXT | CODE | EV (F-61FDB, SRT, "Radiopharmaceutical agent") | 1 | U | | DCID 4021 "PET Radiopharmaceutical" |
| 3 | | HAS ACQ CONTEXT | NUM | EV (R-42806, SRT, "Half-life of radiopharmaceutical") | 1 | U | | UNITS = EV (s, UCUM, "s") |
| 4 | | HAS ACQ CONTEXT | DATETIME | EV (123003, DCM, "Radiopharmaceutical Start DateTime") | 1 | U | | |
| 5 | | HAS ACQ CONTEXT | DATETIME | EV (123004, DCM, "Radiopharmaceutical Stop DateTime") | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|----|----------|---|--|
| 6 | | HAS ACQ CONTEXT | NUM | EV (123005, DCM, "Radiopharmaceutical Volume") | 1 | U | | UNITS = DT (cm3, UCUM, "cm3") |
| 7 | | HAS ACQ CONTEXT | NUM | EV (123006, DCM, "Radionuclide Total Dose") | 1 | U | | UNITS = DT (Bq, UCUM, "Bq") |
| 8 | | HAS ACQ CONTEXT | NUM | EV (123007, DCM, "Radiopharmaceutical Specific Activity") | 1 | U | | UNITS = DT (Bq/mol, UCUM, "Bq/mol") |
| 9 | | HAS ACQ CONTEXT | CODE | EV (G-C340, SRT, "Route of Administration") | 1 | U | | BCID 11 "Route of Administration" |
| 10 | | HAS ACQ CONTEXT | NUM | EV (123009, DCM, "Radionuclide Syringe Counts") | 1 | U | | UNITS = DT ({counts}/s, UCUM "counts/s") |
| 11 | | HAS ACQ CONTEXT | NUM | EV (123010, DCM, "Radionuclide Residual Syringe Counts") | 1 | U | | UNITS = DT ({counts}/s, UCUM "counts/s") |
| 12 | | HAS ACQ CONTEXT | NUM | EV (126203, DCM, "PET Radionuclide Incubation Time") | 1 | U | | UNITS = EV (min, UCUM, "min") |
| 13 | | HAS ACQ CONTEXT | NUM | EV (14749-6, LN, "Glucose") | 1 | U | | UNITS = EV (mmol/l, UCUM, "mmol/l") |
| 14 | | HAS ACQ CONTEXT | DATE | EV (127857, DCM, "Glucose Measurement Date") | 1 | MC | IF Row 13 Glucose is present and does not contain Observation DateTime (0040,A032). | |
| 15 | | HAS ACQ CONTEXT | TIME | EV (127858, DCM, "Glucose Measurement Time") | 1 | MC | IF Row 13 Glucose is present and does not contain Observation DateTime (0040,A032). | |

Content Item Descriptions

| | | |
|--------|----------------------------------|--|
| Row 3 | Half-life of radiopharmaceutical | The units for half life are chosen to be seconds, to match the units used for Radionuclide Half Life (0018,1075). See Section C.8.9.2 "PET Isotope Module" in PS3.3. |
| Row 14 | Glucose Measurement Date | In an earlier edition of the standard, an incorrect DCM code was used for this concept, which was already assigned as (109081, DCM, "Prospective gating"). |
| Row 15 | Glucose Measurement Time | In an earlier edition of the standard, an incorrect DCM code was used for this concept, which was already assigned as (109082, DCM, "Retrospective gating"). |

TID 2000 Basic Diagnostic Imaging Report

Basic report Template for general diagnostic imaging interpretation reports.

Can only be instantiated at the root node and cannot be included in other Templates.

Type: Non-Extensible
Order: Significant
Root: Yes

Table TID 2000. Basic Diagnostic Imaging Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|-----------|--------------------------------|
| 1 | | | CONTAINER | BCID 7000 "Diagnostic Imaging Report Document Titles" | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1-n | U | | |
| 3 | > | HAS CONCEPT MOD | CODE | EV (122142, DCM, "Acquisition Device Type") | 1-n | U | | DCID 29 "Acquisition Modality" |
| 4 | > | HAS CONCEPT MOD | CODE | EV (123014, DCM, "Target Region") | 1-n | U | | |
| 5 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 6 | > | HAS CONCEPT MOD | INCLUDE | DTID 1210 "Equivalent Meaning(s) of Concept Name" | 1-n | U | | |
| 7 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |
| 8 | > | CONTAINS | CONTAINER | BCID 7001 "Diagnostic Imaging Report Headings" | 1-n | U | | |
| 9 | >> | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | U | | |
| 10 | >> | | INCLUDE | DTID 2002 "Report Narrative" | 1 | M | | |

No Content Items other than those defined in Observation Context TID 1001 "Observation Context" may be the target of a HAS OBS CONTEXT relationship when TID 2000 "Basic Diagnostic Imaging Report" is invoked.

Content Item Descriptions

| | |
|--------------|---|
| Rows 2, 3, 4 | The content of rows 2, 3, and 4 shall not be inconsistent with the meaning of the report title of row 1. If the report title does not include the concepts of the procedure type, modality, or target site (e.g., the generic "Diagnostic Imaging Report"), these rows may provide post-coordination of those concepts. If the report title does include such concepts (e.g., "CT Head Report"), they may be encoded duplicatively to support report categorization and search. |
|--------------|---|

TID 2001 Basic Diagnostic Imaging Report Observations

Individual numeric or image observations that may be useful for inclusion as individual findings or as the source of inferences in a report.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 2001. Basic Diagnostic Imaging Report Observations

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|----|----------|---|----------------------|
| 1 | | | IMAGE | BCID 7003 "Diagnostic Imaging Report Purposes of Reference" | 1 | MC | XOR Rows 2, 3, 4, 5. | |
| 2 | | | INCLUDE | DTID 1400 "Linear Measurement" | 1 | MC | XOR Rows 1, 3, 4, 5. Shall not be present if the NUM value type is not supported by the IOD. | |
| 3 | | | INCLUDE | DTID 1401 "Area Measurement" | 1 | MC | XOR Rows 1, 2, 4, 5. Shall not be present if the NUM value type is not supported by the IOD. | |
| 4 | | | INCLUDE | DTID 1402 "Volume Measurement" | 1 | MC | XOR Rows 1, 2, 3, 5. Shall not be present if the NUM value type is not supported by the IOD. | |
| 5 | | | INCLUDE | DTID 1404 "Numeric Measurement" | 1 | MC | XOR Rows 1, 2, 3, 4. Shall not be present if the NUM value type is not supported by the IOD. | |

TID 2002 Report Narrative

The Report Narrative allows recording of text, code, and numeric observations. The order of Content Items in the Template is not significant; the order of Content Items in a SOP Instance may be significant to the narrative flow of the report.

Type: Non-Extensible
Order: Non-Significant
Root: No

Table TID 2002. Report Narrative

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|-----------|----------------------|
| 1 | | CONTAINS | CODE | BCID 7002 "Diagnostic Imaging Report Elements" | 1-n | U | | |
| 2 | > | INFERRED FROM | INCLUDE | DTID 2001 "Basic Diagnostic Imaging Report Observations" | 1-n | U | | |
| 3 | | CONTAINS | TEXT | BCID 7002 "Diagnostic Imaging Report Elements" | 1-n | U | | |
| 4 | > | INFERRED FROM | INCLUDE | DTID 2001 "Basic Diagnostic Imaging Report Observations" | 1-n | U | | |
| 5 | | CONTAINS | INCLUDE | DTID 2001 "Basic Diagnostic Imaging Report Observations" | 1-n | U | | |

TID 2005 Transcribed Diagnostic Imaging Report

Basic report Template for general diagnostic imaging interpretation reports produced in a dictation/transcription workflow. SR documents encoded using this Template are intended to be transformable to HL7 Clinical Document Architecture format (see Section X.3 "Transcribed Diagnostic Imaging CDA Instance Content" in PS3.17 and Annexes in PS3.20).

This Template can be instantiated only at the root node, and cannot be included in other Templates.

Observation Context shall be inherited from outside the SR Content tree, and shall not be changed within the Content tree. To satisfy the requirement that Observer Context is inherited, either or both the Author Observer Sequence (0040,A078) or the Verifying Observer Sequence (0040,A073) from the SR Document Module must be present in the SOP Instance.

Note

See Section C.17.5 "Observation Context Encoding" in PS3.3.

Type: Non-Extensible
Order: Significant
Root: Yes

Table TID 2005. Transcribed Diagnostic Imaging Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|--------------------------------|
| 1 | | | CONTAINER | BCID 7000 "Diagnostic Imaging Report Document Titles" | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1-n | U | | |
| 3 | > | HAS CONCEPT MOD | CODE | EV (122142, DCM, "Acquisition Device Type") | 1-n | U | | DCID 29 "Acquisition Modality" |
| 4 | > | HAS CONCEPT MOD | CODE | EV (123014, DCM, "Target Region") | 1-n | U | | |
| 5 | > | HAS CONCEPT MOD | CODE | EV (121049, DCM, "Language of Content Item and Descendants") | 1 | M | | DCID 5000 "Languages" |
| 6 | > | CONTAINS | CONTAINER | BCID 7001 "Diagnostic Imaging Report Headings" | 1-n | M | | |
| 7 | >> | CONTAINS | TEXT | BCID 7002 "Diagnostic Imaging Report Elements" | 1 | U | | |
| 8 | > | CONTAINS | CONTAINER | EV (55113-5, LN, "Key Images") | 1-n | U | | |
| 9 | >> | CONTAINS | TEXT | EV (113012, DCM, "Key Object Description") | 1 | U | | |
| 10 | >> | CONTAINS | IMAGE | Purpose of Reference is not used | 1-n | M | | |

Content Item Descriptions

| | |
|--------------|---|
| Rows 2, 3, 4 | The content of rows 2, 3, and 4 shall not be inconsistent with the meaning of the report title of row 1. If the report title does not include the concepts of the procedure type, modality, or target site (e.g., the generic "Diagnostic Imaging Report"), these rows may provide post-coordination of those concepts. If the report title does include such concepts (e.g., "CT Head Report"), they may be encoded duplicatively to support report categorization and search. |
| Row 6 | CONTAINER Concept Name may be absent. |
| Row 10 | IMAGE Concept Name shall be absent |

TID 2006 Imaging Report With Conditional Radiation Exposure and Protection Information

This Template is used for general imaging reports for both radiation producing and non-radiation producing modalities.

For radiation producing modalities, radiation exposure and protection information is required, such as to support nationally-specific legal or standard requirements.

It contains mandatory sections, each of which may appear only once in objects instantiated from the Template, including the medical content of the report that comprises relevant medical history data, information on the current request (i.e., clinical question that is

expected to be answered by the requested procedure), impressions on the current imaging procedure that has been performed, and radiation exposure and protection information.

This Template is a specialization of TID 2000 "Basic Diagnostic Imaging Report", in that it uses the same structure of headings and content, but mandates the presence and order of specific headings, and extends the subordinate content with specific Content Items.

Type: Non-Extensible

Order: Non-Significant

Root: Yes

Table TID 2006. Imaging Report With Conditional Radiation Exposure and Protection Information

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|---|----------------------|
| 1 | | | CONTAINER | BCID 7000 "Diagnostic Imaging Report Document Titles" | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1-n | U | | |
| 3 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 4 | > | HAS CONCEPT MOD | INCLUDE | DTID 1210 "Equivalent Meaning(s) of Concept Name" | 1-n | U | | |
| 5 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |
| 6 | > | CONTAINS | CONTAINER | EV (55111-9, LN, "Current Procedure Descriptions") | 1 | M | | |
| 7 | >> | | INCLUDE | DTID 2007 "Imaging Procedure Description" | 1 | M | | |
| 8 | > | CONTAINS | CONTAINER | EV (55114-3, LN, "Prior Procedure Descriptions") | 1-n | MC | IF relevant prior procedures have been performed. | |
| 9 | >> | | INCLUDE | DTID 2007 "Imaging Procedure Description" | 1 | M | | |
| 10 | > | CONTAINS | CONTAINER | EV (11329-0, LN, "History") | 1 | M | | |
| 11 | >> | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | U | | |
| 12 | >> | | INCLUDE | DTID 2002 "Report Narrative" | 1 | M | | |
| 13 | > | CONTAINS | CONTAINER | EV (55115-0, LN, "Request") | 1 | M | | |
| 14 | >> | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | U | | |
| 15 | >> | | INCLUDE | DTID 2002 "Report Narrative" | 1 | M | | |
| 16 | > | CONTAINS | CONTAINER | EV (19005-8, LN, "Impressions") | 1 | M | | |
| 17 | >> | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | U | | |
| 18 | >> | | INCLUDE | DTID 2002 "Report Narrative" | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|---|----------------------|
| 19 | > | CONTAINS | INCLUDE | DTID 2008 "Radiation Exposure and Protection Information" | 1 | MC | IF the current procedure exposes the patient to ionizing radiation. | |
| 20 | > | CONTAINS | CONTAINER | BCID 7001 "Diagnostic Imaging Report Headings" | 1-n | U | | |
| 21 | >> | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | U | | |
| 22 | >> | | INCLUDE | DTID 2002 "Report Narrative" | 1 | M | | |

No Content Items other than those defined in TID 1001 "Observation Context" may be the target of a HAS OBS CONTEXT relationship when TID 2006 "Imaging Report With Conditional Radiation Exposure and Protection Information" is invoked.

Content Item Descriptions

| | |
|-----------|---|
| Row 2 | Even though this information is related to the content of Row 6 in TID 2007 "Imaging Procedure Description", it is present here for consistency with other report Templates. |
| Rows 5, 6 | Information on at least one of the following person observers is mandatory: 1) "Performing Physician" 2) "Performing Technologist". (For those person observers, requirement types as specified in TID 1003 "Person Observer Identifying Attributes" apply. That means that "Person Observer Name" is the only mandatory attribute). |
| Row 20 | Each heading (concept code from CID 7001 "Diagnostic Imaging Report Headings") may appear only once, and may not repeat the headings (concept codes) used when instantiating any other rows of this Template. |

TID 2007 Imaging Procedure Description

Contains information related to the procedure.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 2007. Imaging Procedure Description

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|-----------------------------------|----|----------|----------------|----------------------|
| 1 | | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | U | | |
| 2 | | CONTAINS | TEXT | EV (123014, DCM, "Target Region") | 1 | MC | XOR with Row 3 | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|----------------|---|
| 3 | | CONTAINS | CODE | EV (123014, DCM, "Target Region") | 1 | MC | XOR with Row 2 | DCID 4028 "Craniofacial Anatomic Regions" , DCID 4030 "CT, MR and PET Anatomy Imaged" , DCID 4031 "Common Anatomic Regions" |
| 4 | > | HAS CONCEPT MOD | CODE | EV (122142, DCM, "Acquisition Device Type") | 1-n | U | | DCID 29 "Acquisition Modality" |
| 5 | | CONTAINS | TEXT | EV (121065, DCM, "Procedure Description") | 1 | M | | |
| 6 | | CONTAINS | DATE | EV (111060, DCM, "Study Date") | 1 | M | | Shall be equal to the Study Date (0020,0020) in the General Study Module in the images to which this report applies. |
| 7 | | CONTAINS | TIME | EV (111061, DCM, "Study Time") | 1 | U | | If present, shall be equal to the Study Time (0020,0030) in the General Study Module in the images to which this report applies. |
| 8 | | CONTAINS | COMPOSITE | EV (113701, DCM, "X-Ray Radiation Dose Report") | 1-n | U | | |

TID 2008 Radiation Exposure and Protection Information

Contains information related to the radiation exposure and protection of the patient, as is required by national legal requirements or standards.

Other information about the current procedure is described in TID 2006 "Imaging Report With Conditional Radiation Exposure and Protection Information" and not repeated here.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 2008. Radiation Exposure and Protection Information

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|--|------------------------------|
| 1 | | | CONTAINER | EV (73569-6, LN, "Radiation Exposure and Protection Information") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | U | | |
| 3 | > | CONTAINS | CODE | EV (364320009, SCT, "Pregnancy observable") | 1 | MC | IF female patient of child-bearing age | DCID 6096 "Pregnancy Status" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-------|--|----|----------|---|----------------------|
| 4 | > | CONTAINS | TEXT | EV (18785-6, LN, "Indications for Procedure") | 1 | M | | |
| 5 | > | CONTAINS | PNAME | EV (113850, DCM, "Irradiation Authorizing ") | 1 | M | | |
| 6 | > | CONTAINS | TEXT | EV (113921, DCM, "Radiation Exposure") | 1 | MC | IFF ionizing radiation is applied in the context of the current procedure | |
| 7 | > | CONTAINS | TEXT | EV (440252007, SCT, "Administration of radiopharmaceutical") | 1 | MC | IFF radioactive substance is administered in the context of the current procedure | |

Content Item Descriptions

| | |
|-------|--|
| Row 5 | The clinician responsible for determining that the irradiating procedure was appropriate for the indications. |
| Row 6 | A textual, human-readable description of the radiation exposure is all that is required by this Template (such as is sufficient to comply with, for example, German law). Detailed specification of exposure is out of the scope of this Template. Such information may be given in a separate SR instances such as described in TID 10001 "Projection X-Ray Radiation Dose" or TID 10011 "CT Radiation Dose", and referenced from TID 2007 "Imaging Procedure Description". |

TID 2010 Key Object Selection

The Key Object Selection Template is intended for flagging one or more significant images, waveforms, or other composite SOP Instances. Key Object Selection contains:

- coded document title stating the reason for significance of the referenced objects in the Key Object Selection,
- optional free form text comment in an explicitly identified language, and
- optional identification of the observer (device or person) that created the Key Object Selection.

Note

1. For instance, when this Template is used to identify images rejected for quality reasons, the device or person performing the quality assessment is identified in observation context items (invoked through TID 1002 "Observer Context"). The reason for rejection can be included both as a code used as a concept modifier for the document title, and as text description.
2. The order of object references may be significant, e.g., when the title concept is "For Conference".
3. Instances referenced in a Key Object Selection Document may be securely referenced by Digital Signature or MAC mechanisms within the SR Document General Module (see PS3.3).

The Template can only be instantiated at the root node and cannot be included in other Templates. The Template is not extensible; that is, no other Content Items may be added to this Template, or the Templates that are included, recursively.

Type: Non-Extensible
Order: Non-Significant
Root: Yes

Table TID 2010. Key Object Selection

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|---|--|
| 1 | | | CONTAINER | DCID 7010 "Key Object Selection Document Title" | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | CODE | EV (113011, DCM, "Document Title Modifier") | 1-n | U | | |
| 3 | > | HAS CONCEPT MOD | CODE | EV (113011, DCM, "Document Title Modifier") | 1 | UC | IF Row 1 Concept Name = (113001, DCM, "Rejected for Quality Reasons") or (113010, DCM, "Quality Issue") | DCID 7011 "Rejected for Quality Reasons" |
| 4 | > | HAS CONCEPT MOD | CODE | EV (113011, DCM, "Document Title Modifier") | 1 | MC | IF Row 1 Concept Name = (113013, DCM, "Best In Set") | DCID 7012 "Best in Set" |
| 5 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | U | | |
| 6 | > | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | U | | |
| 7 | > | CONTAINS | TEXT | EV (113012, DCM, "Key Object Description") | 1 | U | | |
| 8 | > | CONTAINS | IMAGE | Purpose of Reference shall not be present | 1-n | MC | At least one of Rows 8, 9 and 10 shall be present | |
| 9 | > | CONTAINS | WAVEFORM | Purpose of Reference shall not be present | 1-n | MC | At least one of Rows 8, 9 and 10 shall be present | |
| 10 | > | CONTAINS | COMPOSITE | Purpose of Reference shall not be present | 1-n | MC | At least one of Rows 8, 9 and 10 shall be present | |

TID 2020 Spectacle Prescription Report

The Spectacle Prescription Report is a structured report used to represent the prescription for a patient. Usually a prescription is for both eyes, but sometimes just one. The Spectacle Prescription Report defines a refractive correction relative to which visual acuity may be measured subjectively, and thus may be referenced by a Visual Acuity Measurements Storage SOP Instance.

Type: Extensible
Order: Significant
Root: Yes

Table TID 2020. Spectacle Prescription Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|---------------------------------------|----------------------|
| 1 | | | CONTAINER | EV (111671, DCM, "Spectacle Prescription Report") | 1 | M | | Root node |
| 2 | > | CONTAINS | CONTAINER | EV (111688, DCM, "Right Eye Rx") | 1 | UC | IF Right Spectacle Lens is prescribed | |
| 3 | >> | CONTAINS | INCLUDE | DTID 2021 "Template for Spectacle Prescription Details" | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|--------------------------------------|-----------------------------|
| 4 | > | CONTAINS | CONTAINER | EV (111689, DCM, "Left Eye Rx") | 1 | UC | IF Left Spectacle Lens is prescribed | |
| 5 | >> | CONTAINS | INCLUDE | DTID 2021 "Template for Spectacle Prescription Details" | 1 | M | | |
| 6 | > | CONTAINS | NUM | EV (111679, DCM, "Distance Pupillary Distance") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 7 | > | CONTAINS | NUM | EV (111680, DCM, "Near Pupillary Distance") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 8 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

TID 2021 Template for Spectacle Prescription Details

Type: Extensible
Order: Significant
Root: No

Table TID 2021. Spectacle Prescription Details

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|--|----|----------|-----------------------------------|---|
| 1 | | CONTAINS | NUM | EV (F-02FB4, SRT, "Sphere") | 1 | M | | UNITS = EV ([diop], UCUM, "diopters") |
| 2 | | CONTAINS | NUM | EV (F-A2143, SRT, "Cylinder Power") | 1 | UC | IF Cylinder is prescribed | UNITS = EV ([diop], UCUM, "diopters") |
| 3 | | CONTAINS | NUM | EV (F-02FB7, SRT, "Axis") | 1 | MC | IF ROW 2 is Present | UNITS = EV (deg, UCUM, "degrees") |
| 4 | | CONTAINS | NUM | EV (111672, DCM, "Add Near") | 1 | UC | IF Add Near is prescribed | UNITS = EV ([diop], UCUM, "diopters") |
| 5 | | CONTAINS | NUM | EV (111673, DCM, "Add Intermediate") | 1 | UC | IF Add Intermediate is prescribed | UNITS = EV ([diop], UCUM, "diopters") |
| 6 | | CONTAINS | NUM | EV (111674, DCM, "Add Other") | 1 | UC | IF Add Other is prescribed | UNITS = EV ([diop], UCUM, "diopters") |
| 7 | | CONTAINS | NUM | EV (111675, DCM, "Horizontal Prism Power") | 1 | UC | IF Horizontal Prism is prescribed | UNITS = EV ([p'diop], UCUM, "prism diopters") |
| 8 | | CONTAINS | CODE | EV (111676, DCM, "Horizontal Prism Base") | 1 | MC | IF ROW 7 is present | DCID 4214 "Ophthalmic Horizontal Directions" |
| 9 | | CONTAINS | NUM | EV (111677, DCM, "Vertical Prism Power") | 1 | UC | IF Vertical Prism is prescribed | UNITS = EV ([p'diop], UCUM, "prism diopters") |
| 10 | | CONTAINS | CODE | EV (111678, DCM, "Vertical Prism Base") | 1 | MC | IF Row 9 is present | DCID 4215 "Ophthalmic Vertical Directions" |

TID 2100 Macular Grid Thickness and Volume Report

The Macular Grid Thickness and Volume Report is a structured report encoding the macular grid thickness and volume values derived from ophthalmic images, such as ophthalmic OPT images. This may encode measurements of either or both eyes.

The macular grid conveyed by this report is based upon the grid employed by the Early Treatment of Diabetic Retinopathy Study (ETDRS) to measure area and proximity of macular edema to the anatomic center (fovea) of the macula. See *ETDRS Report Number 10*.

Type: Extensible
Order: Significant
Root: Yes

Table TID 2100. Macular Grid Thickness and Volume Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|---------------------|--|
| 1 | | | CONTAINER | EV (111690, DCM, "Macular Grid Thickness and Volume Report") | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |
| 4 | > | CONTAINS | INCLUDE | DTID 2101 "Macular Grid Thickness and Volume Measurement" | 1 | MC | IF Row 5 is absent. | \$Laterality = EV (G-A100, SRT, "Right") |
| 5 | > | CONTAINS | INCLUDE | DTID 2101 "Macular Grid Thickness and Volume Measurement" | 1 | MC | IF Row 4 is absent. | \$Laterality = EV (G-A101, SRT, "Left") |

TID 2101 Macular Grid Thickness and Volume Measurement

This Template encodes the macular grid thickness and volume measurements for a single eye.

Table TID 2101. Parameters

| Parameter Name | Parameter Usage |
|----------------|-----------------|
| \$Laterality | Which eye |

Type: Extensible
Order: Significant
Root: No

Table TID 2101. Macular Grid Thickness and Volume Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|-------------------------------------|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | EV (T-AA000, SRT, "Eye") |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | M | | \$Laterality |
| 4 | > | CONTAINS | NUM | EV (57108-3, LN, "Macular Grid.Center Point Thickness") | 1 | M | | UNITS = EV (um, UCUM, "micrometer") |
| 5 | > | CONTAINS | NUM | EV (57109-1, LN, "Macular Grid.Center Subfield Thickness") | 1 | M | | UNITS = EV (um, UCUM, "micrometer") |
| 6 | > | CONTAINS | NUM | EV (57110-9, LN, "Macular Grid.Inner Superior Subfield Thickness") | 1 | M | | UNITS = EV (um, UCUM, "micrometer") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|--|
| 7 | > | CONTAINS | NUM | EV (57111-7, LN, "Macular Grid.Inner Nasal Subfield Thickness") | 1 | M | | UNITS = EV (um, UCUM, "micrometer") |
| 8 | > | CONTAINS | NUM | EV (57112-5, LN, "Macular Grid.Inner Inferior Subfield Thickness") | 1 | M | | UNITS = EV (um, UCUM, "micrometer") |
| 9 | > | CONTAINS | NUM | EV (57113-3, LN, "Macular Grid.Inner Temporal Subfield Thickness") | 1 | M | | UNITS = EV (um, UCUM, "micrometer") |
| 10 | > | CONTAINS | NUM | EV (57114-1, LN, "Macular Grid.Outer Superior Subfield Thickness") | 1 | M | | UNITS = EV (um, UCUM, "micrometer") |
| 11 | > | CONTAINS | NUM | EV (57115-8, LN, "Macular Grid.Outer Nasal Subfield Thickness") | 1 | M | | UNITS = EV (um, UCUM, "micrometer") |
| 12 | > | CONTAINS | NUM | EV (57116-6, LN, "Macular Grid.Outer Inferior Subfield Thickness") | 1 | M | | UNITS = EV (um, UCUM, "micrometer") |
| 13 | > | CONTAINS | NUM | EV (57117-4, LN, "Macular Grid.Outer Temporal Subfield Thickness") | 1 | M | | UNITS = EV (um, UCUM, "micrometer") |
| 14 | > | CONTAINS | NUM | EV (57118-2, LN, "Macular Grid.Total Volume") | 1 | M | | UNITS = EV (mm3, UCUM, "mm3") |
| 15 | > | CONTAINS | NUM | EV (111691, DCM, "Number of Images Used for Macular Measurements") | 1 | M | | UNITS = EV ({images}, UCUM, "images") |
| 16 | > | CONTAINS | NUM | EV (111692, DCM, "Number of Samples Used per Image") | 1 | M | | UNITS = EV ({samples}, UCUM, "samples") |
| 17 | > | CONTAINS | NUM | EV (111693, DCM, "Analysis Quality Rating") | 1 | M | | UNITS = EV ({0:100}, UCUM, "range:0:100") Value = 0 - 100 |
| 18 | >> | HAS OBS CONTEXT | INCLUDE | DTID 2102 "Quality Rating Identification" | 1 | M | | |
| 19 | > | CONTAINS | NUM | EV (111694, DCM, "Image Set Quality Rating") | 1 | M | | UNITS = EV ({0:100}, UCUM, "range:0:100") Value = 0 - 100 |
| 20 | >> | HAS OBS CONTEXT | INCLUDE | DTID 2102 "Quality Rating Identification" | 1 | M | | |
| 21 | > | CONTAINS | NUM | EV (111029, DCM, "Image Quality Rating") | 1-n | U | | UNITS = EV ({0:100}, UCUM, "range:0:100") Value = 0 - 100 |
| 22 | >> | INFERRED FROM | IMAGE | No purpose of reference | 1 | M | | |
| 23 | >> | HAS OBS CONTEXT | INCLUDE | DTID 2102 "Quality Rating Identification" | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|--|-----|----------|-----------|--|
| 24 | > | CONTAINS | CODE | EV (111696, DCM, "Visual Fixation Quality During Acquisition") | 1 | U | | DCID 4220 "Visual Fixation Quality During Acquisition" |
| 25 | >> | HAS CONCEPT MOD | CODE | EV (111697, DCM, "Visual Fixation Quality Problem") | 1-n | U | | DCID 4221 "Visual Fixation Quality Problem" |
| 26 | > | CONTAINS | CODE | EV (111698, DCM, "Ophthalmic Macular Grid Problem") | 1-n | U | | DCID 4222 "Ophthalmic Macular Grid Problem" |
| 27 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

TID 2102 Quality Rating Identification

This Template specifies the algorithm (and parameters) used to create a quality rating for an image or image set.

It is expected that the identified algorithm will create a consistent quality rating when analyzing a given image. If the algorithm allows change to its parameters that would alter the quality rating created, the specific parameters used should be specified.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 2102. Quality Rating Identification

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|-----|----------|-----------|----------------------|
| 1 | | | TEXT | EV (111001, DCM, "Algorithm Name") | 1 | M | | |
| 2 | | | TEXT | EV (111003, DCM, "Algorithm Version") | 1 | M | | |
| 3 | | | TEXT | EV (122405, DCM, "Algorithm Manufacturer") | 1 | M | | |
| 4 | | | TEXT | EV (111002, DCM, "Algorithm Parameters") | 1-n | U | | |

Procedure Log IOD Templates

TID 3001 Procedure Log

The Procedure Log Template is intended for the representation of reports or logs of time-stamped events occurring during an image-guided interventional or other procedure.

This Template does not require a particular ordering of the subsidiary Content Items.

Note

1. The Procedure Log IOD (PS3.3) requires ordering by Observation DateTime; thus log entries of different types (i.e., specified by different Rows in the Template) may appear in any order.
2. While this Template is extensible, the Procedure Log IOD forbids Container Content Items subsidiary to the top level Container.

Type: Extensible
Order: Non-Significant
Root: Yes

Table TID 3001. Procedure Log

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|---------------------------------------|
| 1 | | | CONTAINER | DCID 3400 "Procedure Log Titles" | 1 | M | | Root node |
| 2 | > | | INCLUDE | DTID 1002 "Observer Context" | 1-n | M | | |
| 3 | > | | INCLUDE | DTID 3601 "Procedure Context" | 1 | M | | |
| 4 | > | HAS ACQ CONTEXT | TEXT | EV (121121, DCM, "Room identification") | 1 | U | | |
| 5 | > | HAS ACQ CONTEXT | TEXT | EV (121122, DCM, "Equipment identification") | 1-n | U | | |
| 6 | > | CONTAINS | TEXT | DCID 3401 "Types of Log Notes" | 1-n | U | | |
| 7 | >> | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |
| 8 | > | CONTAINS | CODE | EV (121123, DCM, "Patient Status or Event") | 1-n | U | | DCID 3402 "Patient Status and Events" |
| 9 | >> | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |
| 10 | > | CONTAINS | PNAME | DCID 3404 "Staff Actions" | 1-n | U | | |
| 11 | >> | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |
| 12 | > | CONTAINS | TEXT | DCID 3427 "Equipment Events" | 1-n | U | | Equipment identifier |
| 13 | >> | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |
| 14 | > | CONTAINS | INCLUDE | DTID 3100 "Procedure Action" | 1-n | U | | |
| 15 | > | CONTAINS | INCLUDE | DTID 3101 "Image Acquisition" | 1-n | U | | |
| 16 | > | CONTAINS | INCLUDE | DTID 3102 "Waveform Acquisition" | 1-n | U | | |
| 17 | > | CONTAINS | INCLUDE | DTID 3103 "Referenced Object" | 1-n | U | | |
| 18 | > | CONTAINS | INCLUDE | DTID 3104 "Consumables" | 1-n | U | | |
| 19 | > | CONTAINS | INCLUDE | DTID 3105 "Lesion Identification and Properties" | 1-n | U | | |
| 20 | > | CONTAINS | INCLUDE | DTID 3106 "Drugs/Contrast Administered" | 1-n | U | | |
| 21 | > | CONTAINS | INCLUDE | DTID 3107 "Device Used" | 1-n | U | | |
| 22 | > | CONTAINS | INCLUDE | DTID 3108 "Intervention" | 1-n | U | | |
| 23 | > | CONTAINS | CODE | EV (DD-60002, SRT, "Complication of Procedure") | 1-n | U | | DCID 3413 "Adverse Outcomes" |
| 24 | >> | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |
| 25 | > | CONTAINS | INCLUDE | DTID 3109 "Measurements" | 1-n | U | | |
| 26 | > | CONTAINS | INCLUDE | DTID 3110 "Impressions or Findings" | 1-n | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--------------------------------|-----|----------|-----------|----------------------|
| 27 | > | CONTAINS | INCLUDE | DTID 3111 "Percutaneous Entry" | 1-n | U | | |
| 28 | > | CONTAINS | INCLUDE | DTID 3112 "Specimen Obtained" | 1-n | U | | |
| 29 | > | CONTAINS | INCLUDE | DTID 3113 "Patient Support" | 1-n | U | | |
| 30 | > | CONTAINS | INCLUDE | DTID 3114 "Patient Assessment" | 1-n | U | | |
| 31 | > | CONTAINS | INCLUDE | DTID 3115 "ECG ST Assessment" | 1-n | U | | |

Content Item Descriptions

| | |
|-------|--|
| Row 2 | Includes TID 1002 "Observer Context", which shall be used to record the identity of the person responsible for recording the log, as well as all other participants in the procedure, even though these personnel may not technically be "observers" of the Procedure Log. As participants in the procedure, they are potential sources for events and observations recorded in the Log. TID 1002 "Observer Context" allows the specification of the person's role in the organization (e.g., physician, nurse), as well as the role in the procedure (e.g., circulating, performing, etc.). |
| Row 5 | Shall be used to record the identity of the major equipment used in the procedure. |
| Row 6 | May be used to record any event not covered by a specific log entry Template. |

TID 3010 Log Entry Qualifiers

The Log Entry Qualifiers Template provides a common means for adding additional description to a procedure log Content Item. It allows identification of a source for the procedure log entry (other than the recording observer for the log as a whole), a free text comment, a link to a particular Procedure Action item, a link to a particular lesion, or the date/time of recording (if different than the time of the event occurrence recorded in the Observation DateTime of the parent Content Item).

Type: Extensible
Order: Significant
Root: No

Table TID 3010. Log Entry Qualifiers

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|----------------------------|
| 1 | | | INCLUDE | DTID 1000 "Quotation" | 1 | U | | |
| 2 | | HAS PROPERTIES | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |
| 3 | | HAS OBS CONTEXT | TEXT | EV (121124, DCM, "Procedure Action ID") | 1-n | U | | |
| 4 | | HAS OBS CONTEXT | TEXT | EV (121151, DCM, "Lesion Identifier") | 1-n | U | | Up to 3 numeric characters |
| 5 | | HAS OBS CONTEXT | DATETIME | EV (121125, DCM, "DateTime of Recording of Log Entry") | 1 | U | | |
| 6 | | INFERRED FROM | IMAGE | | 1-n | U | | |
| 7 | | INFERRED FROM | WAVEFORM | | 1-n | U | | |
| 8 | | INFERRED FROM | COMPOSITE | | 1-n | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|----|----------|-----------|---------------------------------|
| 9 | | HAS OBS CONTEXT | CODE | EV (121135, DCM, "Observation DateTime Qualifier") | 1 | U | | DCID 3430 "DateTime Qualifiers" |

Content Item Descriptions

| | |
|-------|--|
| Row 3 | Procedure Action ID allows linking recorded events to a particular action, step, or phase of a procedure. See description for TID 3100 "Procedure Action". |
| Row 4 | Lesion Identifier is specified as a numeric text string, and allows linking recorded events to the diagnosis or therapy of particular lesion. See description for TID 3105 "Lesion Identification and Properties". |

TID 3100 Procedure Action

The Procedure Action Template is intended for the recording of the beginning or end of procedure steps or action items in a procedure. The level of granularity of the recorded events is not specified, and may vary between institutions, or even be at multiple levels within a single procedure log. There is no requirement for the real-world procedure step or action item recorded with this Template to end before another one begins; there may be overlapping or simultaneous procedure steps or action items.

This log entry Template may be used to record the start or stop of timers.

Other recorded events in the procedure may be linked to a particular step or action item by Procedure Action ID (see TID 3010 "Log Entry Qualifiers").

Type: Extensible
Order: Significant
Root: No

Table TID 3100. Procedure Action

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|--|-------------------------------------|
| 1 | | | CODE | DCID 3421 "Procedure Action" | 1 | M | | BCID 3405 "Procedure Action Values" |
| 2 | > | HAS PROPERTIES | TEXT | EV (121124, DCM, "Procedure Action ID") | 1 | M | | |
| 3 | > | HAS PROPERTIES | PNAME | BCID 7453 "Performing Roles" | 1-n | U | | |
| 4 | > | HAS PROPERTIES | NUM | EV (121128, DCM, "Procedure Action Duration") | 1 | U | | |
| 5 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |
| 6 | > | HAS PROPERTIES | UIDREF | EV (121126, DCM, "Performed Procedure Step SOP Instance UID") | 1 | MC | IFF a Performed Procedure Step SOP Class is used to provide status of the Procedure Step | |
| 7 | > | HAS PROPERTIES | UIDREF | EV (121127, DCM, "Performed Procedure Step SOP Class UID") | 1 | MC | IFF a Performed Procedure Step SOP Class is used to provide status of the Procedure Step | |

Content Item Descriptions

| | |
|-------|--|
| Row 2 | The value of the Procedure Action ID shall be uniquely associated with the step or action within the context of the Study, and may be used to associate various Procedure Log entries with the step or action. |
| Row 3 | May be used to record the identity of staff roles for the purpose of this Procedure Action, which may differ from their roles in the procedure as a whole. |

TID 3101 Image Acquisition

The Image Acquisition Template allows recording of the essential parameters of a digital image acquired during the procedure.

Type: Extensible
Order: Significant
Root: No

Table TID 3101. Image Acquisition

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|----|----------|-----------|--|
| 1 | | | IMAGE | EV (121138, DCM, "Image Acquired") | 1 | M | | |
| 2 | > | HAS ACQ CONTEXT | UIDREF | EV (112002, DCM, "Series Instance UID") | 1 | M | | |
| 3 | > | HAS ACQ CONTEXT | CODE | EV (121139, DCM, "Modality") | 1 | M | | DCID 29 "Acquisition Modality" Derived from referenced image SOP Instance attribute (0008,0060) |
| 4 | > | HAS PROPERTIES | NUM | EV (121140, DCM, "Number of Frames") | 1 | U | | |
| 5 | > | HAS PROPERTIES | TEXT | EV (121141, DCM, "Image Type") | 1 | U | | From referenced image SOP Instance attribute (0008,0008) |
| 6 | > | HAS ACQ CONTEXT | NUM | EV (112011, DCM, "Positioner Primary Angle") | 1 | U | | UNITS = EV (deg, UCUM, "deg") |
| 7 | > | HAS ACQ CONTEXT | NUM | EV (112012, DCM, "Positioner Secondary Angle") | 1 | U | | UNITS = EV (deg, UCUM, "deg") |
| 8 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |

TID 3102 Waveform Acquisition

The Waveform Acquisition Template allows recording of the essential parameters of a digital waveform acquired during the procedure.

Type: Extensible
Order: Significant
Root: No

Table TID 3102. Waveform Acquisition

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|----------|---------------------------------------|----|----------|-----------|----------------------|
| 1 | | | WAVEFORM | EV (121143, DCM, "Waveform Acquired") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|----|----------|-----------|---|
| 2 | > | HAS ACQ CONTEXT | CODE | EV (121139, DCM, "Modality") | 1 | M | | DCID 29 "Acquisition Modality" Derived from referenced waveform SOP Instance attribute (0008,0060) |
| 3 | > | HAS ACQ CONTEXT | NUM | EV (121142, DCM, "Acquisition Duration") | 1 | U | | |
| 4 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |

TID 3103 Referenced Object

The Referenced Object Template allows reference to measurement or report objects, such as prior medical reports, laboratory results, hemodynamic measurement reports, or quantitative analysis reports.

Type: Extensible
Order: Significant
Root: No

Table TID 3103. Referenced Object

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------------------------------|---|
| 1 | | | COMPOSITE | BCID 3407 "Purpose of Reference to Object" | 1 | M | | |
| 2 | > | HAS PROPERTIES | CODE | EV (121144, DCM, "Document Title") | 1 | MC | IFF Row 1 references an SR object | Root node concept of referenced SR object |
| 3 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |

TID 3104 Consumables

The Consumables Template allows recording of devices (e.g., catheters or stents), drugs, or contrast agents accessed in a procedure. This Content Item is directed towards inventory control and billing. The actual clinical use of the particular consumable is recorded using TID 3106 "Drugs/Contrast Administered" or TID 3107 "Device Used".

This Template allows recording both consumable retrieval from, and return to, inventory or stock, and disposal of used material. The quantity involved in each recorded transaction may be specified.

Type: Extensible
Order: Significant
Root: No

Table TID 3104. Consumables

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|-----|----------|-----------|----------------------------------|
| 1 | | | CODE | DCID 3408 "Actions With Consumables" | 1 | M | | Vendor or local bar coded values |
| 2 | > | HAS PROPERTIES | TEXT | DCID 3426 "Consumables Parameters" | 1-n | U | | |
| 3 | > | HAS PROPERTIES | NUM | EV (121146, DCM, "Quantity of Material") | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|----------------------------------|----|----------|-----------|----------------------|
| 4 | > | HAS PROPERTIES | CODE | EV (121147, DCM, "Billing Code") | 1 | U | | local billing codes |
| 5 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |

TID 3105 Lesion Identification and Properties

The Lesion Identification and Properties Template allows recording the identification of each lesion addressed in a procedure. The lesion identifier may be used to relate diagnostic or therapeutic actions with their target lesion (see Row 4 in TID 3010 "Log Entry Qualifiers"). This Content Item may include the initial visually estimated measurements of stenosis or TIMI flow; measured values from a quantitative measurement report may be referenced indirectly (through TID 3103 "Referenced Object"), or by quotation (TID 3109 "Measurements"). Subsequent (e.g., post-intervention) stenosis measurements may be encoded using TID 3109 "Measurements", with the Lesion Identifier conveyed through its subsidiary TID 3010 "Log Entry Qualifiers" Template.

Type: Extensible
Order: Significant
Root: No

Table TID 3105. Lesion Identification and Properties

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|-----|----------|---------------------------------------|--|
| 1 | | | TEXT | EV (121151, DCM, "Lesion Identifier") | 1 | M | | Up to 3 numeric characters |
| 2 | > | HAS PROPERTIES | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DCID 3604 "Arterial Lesion Locations" |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (G-A1F8, SRT, "Topographical modifier") | 1 | U | | DCID 3019 "Cardiovascular Anatomic Location Modifiers" |
| 4 | > | HAS PROPERTIES | CODE | EV (121153, DCM, "Lesion Risk") | 1 | U | | DCID 3418 "Lesion Risk" |
| 5 | > | HAS PROPERTIES | NUM | EV (R-101BB, SRT, "Lumen Diameter Stenosis") | 1 | U | | UNITS = EV (% , UCUM, "%") |
| 6 | >> | HAS CONCEPT MOD | CODE | EV (G-72BB, SRT, "Catheterization Procedure Phase") | 1 | M | | EV (G-7293, SRT, "Baseline Phase") |
| 7 | >> | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | U | | DCID 3745 "Calculation Method" |
| 8 | > | HAS PROPERTIES | CODE | EV (122109, DCM, "Baseline TIMI Flow") | 1 | UC | IFF Row 2 specifies a coronary artery | DCID 3713 "TIMI Flow Characteristics" |
| 9 | > | HAS PROPERTIES | CODE | EV (122131, DCM, "Degree of Thrombus") | 1 | U | | DCID 3714 "Thrombus" |
| 10 | > | HAS PROPERTIES | CODE | EV (F-01740, SRT, "Lesion Margin Characteristics") | 1 | U | | DCID 3715 "Lesion Margin" |
| 11 | > | HAS PROPERTIES | CODE | EV (122134, DCM, "Vessel Morphology") | 1-n | U | | DCID 3712 "Vessel Descriptors" |
| 12 | > | HAS PROPERTIES | CODE | EV (122132, DCM, "Severity of Calcification") | 1 | U | | DCID 3716 "Severity" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|----|----------|-----------|----------------------|
| 13 | > | HAS PROPERTIES | IMAGE | DT (121080, DCM, "Best illustration of finding") | 1 | U | | |
| 14 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |

Content Item Descriptions

| | |
|-------|---|
| Row 1 | Lesion Identifier is specified as a numeric text string in order to facilitate transcoding to DICOM Attribute (0018,3105) Lesion Number and to formats for outcomes registries, such as the ACC National Cardiovascular Data Registry™. |
|-------|---|

TID 3106 Drugs/Contrast Administered

The Drugs/Contrast Administered Template allows the recording of the start or end of that type of event, together with its parameters. If start and end are represented by a single log entry (e.g., for an injection), the concept name "Drug/contrast administered" shall be used.

Type: Extensible
Order: Significant
Root: No

Table TID 3106. Drugs/Contrast Administered

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|-----------|--|
| 1 | | | CODE | DCID 3409 "Administration of Drugs/Contrast" | 1 | M | | BCID 10 "Interventional Drug" or BCID 12 "Radiographic Contrast Agent" |
| 2 | > | HAS PROPERTIES | TEXT | EV (121145, DCM, "Description of Material") | 1 | U | | |
| 3 | > | HAS PROPERTIES | CODE | EV (G-C340, SRT, "Route of administration") | 1 | U | | BCID 11 "Route of Administration" |
| 4 | > | HAS PROPERTIES | NUM | DCID 3410 "Numeric Parameters of Drugs/Contrast" | 1-n | U | | |
| 5 | > | HAS PROPERTIES | PNAME | EV (121152, DCM, "Person administering drug/contrast") | 1 | U | | |
| 6 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |

TID 3107 Device Used

The Device Used Template allows recording of the use of interventional diagnostic and therapeutic devices.

The identification of one device used to deploy another device (e.g., a balloon catheter to deploy a stent) may be described with two entries, with one identified as a deployment device in the Concept Modifier of Row 6 of this Template, and linked by the same Procedure Action ID in the Log Entry Qualifiers of the included TID 3010 "Log Entry Qualifiers".

Type: Extensible
Order: Significant
Root: No

Table TID 3107. Device Used

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|---|
| 1 | | | CODE | DCID 3422 "Device Use Actions" | 1 | M | | BCID 3429 "Catheterization Devices" |
| 2 | > | HAS PROPERTIES | CODE | EV (121150, DCM, "Device Code") | 1-n | U | | Vendor or local bar coded values |
| 3 | > | HAS PROPERTIES | TEXT | EV (121145, DCM, "Description of Material") | 1 | U | | |
| 4 | > | HAS PROPERTIES | NUM | DCID 3423 "Numeric Device Characteristics" | 1-n | U | | |
| 5 | > | HAS PROPERTIES | CODE | EV (G-C0E9, SRT, "Procedure site") | 1 | U | | BCID 3630 "Cardiovascular Anatomic Locations" |
| 6 | > | HAS CONCEPT MOD | CODE | EV (G-C0E8, SRT, "Has Intent") | 1 | U | | DT (121155, DCM, "Deployment") |
| 7 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |

TID 3108 Intervention

The Intervention Template allows recording of interventions, including atherectomy, angioplasty, stent placement, brachytherapy, etc. The record may include reference to an image that documents the intervention.

Type: Extensible
Order: Significant
Root: No

Table TID 3108. Intervention

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|-----|----------|--------------------------------------|--|
| 1 | | | CODE | EV (122090, DCM, "Intervention Action") | 1 | M | | DCID 3412 "Intervention Actions and Status" |
| 2 | > | HAS PROPERTIES | CODE | EV (G-C0E9, SRT, "Procedure site") | 1 | M | | DCID 3604 "Arterial Lesion Locations" |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (G-A1F8, SRT, "Topographical modifier") | 1 | U | | DCID 3019 "Cardiovascular Anatomic Location Modifiers" |
| 4 | > | HAS PROPERTIES | TEXT | EV (121154, DCM, "Intervention attempt identifier") | 1 | M | | Up to 3 numeric characters |
| 5 | > | HAS PROPERTIES | CODE | EV (G-C50A, SRT, "Uses Equipment") | 1-n | U | | BCID 3411 "Intracoronary Devices" |
| 6 | >> | HAS CONCEPT MOD | CODE | EV (122111, DCM, "Primary Intervention Device") | 1 | MC | IF Device is Primary for this Lesion | DCID 230 "Yes-No" |
| 7 | > | HAS PROPERTIES | NUM | DCID 3425 "Intervention Parameters" | 1-n | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|----|----------|-----------|----------------------|
| 8 | > | HAS PROPERTIES | IMAGE | BCID 7003 "Diagnostic Imaging Report Purposes of Reference" | 1 | U | | |
| 9 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |

Content Item Descriptions

| | |
|-------|---|
| Row 4 | Intervention attempt Identifier is specified as a numeric text string, and shall be treated as the ordinal of the recorded attempted intervention within this procedure (i.e., "1" for the first attempted intervention, "2" for the second, etc.). |
|-------|---|

TID 3109 Measurements

The Measurements Template allows recording of significant measurements, such as vital signs, laboratory results, hemodynamic measurements, or quantitative analysis measurements. These measurements are often quoted from another source, which would be documented in the included TID 3010 "Log Entry Qualifiers".

Type: Extensible
Order: Significant
Root: No

Table TID 3109. Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|-----------------------------------|----|----------|-----------|----------------------|
| 1 | | | NUM | No BCID | 1 | U | | |
| 2 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |
| 3 | > | HAS PROPERTIES | INCLUDE | DTID 310 "Measurement Properties" | 1 | U | | |
| 4 | | | CODE | No BCID | 1 | U | | |
| 5 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |

TID 3110 Impressions or Findings

The Impressions or Findings Template allows the recording of unconfirmed (provisional) impressions or findings noted during the procedure. It is not intended to convey the Cath Lab Clinical Report (the formal report from the performing physician), although it may be used (like any Procedure Log entry) for the subsequent construction of the Cath Lab Clinical Report.

A finding that is supported by a specific image frame may reference that image in the INFERRED FROM / IMAGE row of the included TID 3010 "Log Entry Qualifiers" Template.

Type: Extensible
Order: Significant
Root: No

Table TID 3110. Impressions or Findings

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|-----------------------------|----|----------|-----------|---------------------------|
| 1 | | | CODE | EV (121071, DCM, "Finding") | 1 | U | | BCID 3728 "Cath Findings" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|----|----------|-----------|--|
| 2 | > | HAS PROPERTIES | CODE | EV (G-C197, SRT, "Severity") | 1 | U | | DCID 3716 "Severity" |
| 3 | > | HAS PROPERTIES | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | U | | |
| 4 | >> | HAS CONCEPT MOD | CODE | EV (G-A1F8, SRT, "Topographical modifier") | 1 | U | | DCID 3019 "Cardiovascular Anatomic Location Modifiers" |
| 5 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |
| 6 | | | TEXT | BCID 3419 "Findings Titles" | 1 | U | | |
| 7 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |

Content Item Descriptions

| | |
|-------|--|
| Row 3 | Finding Site has no Baseline Context ID specified. Typically terms would be drawn from coronary segments, other arterial segments, myocardial segments, etc. |
|-------|--|

TID 3111 Percutaneous Entry

The Percutaneous Entry Template allows recording of the opening or closing of invasive access ports.

Type: Extensible
Order: Significant
Root: No

Table TID 3111. Percutaneous Entry

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|----|----------|-----------|--------------------------------|
| 1 | | | CODE | EV (121156, DCM, "Percutaneous Entry Action") | 1 | M | | DCID 3403 "Percutaneous Entry" |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 244 "Laterality" |
| 3 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |

TID 3112 Specimen Obtained

The Specimen Obtained Template allows recording of obtaining a specimen, and the identifiers for that specimen. This is particularly designed for blood samples that will be analyzed for blood oxygen-related measurements. The analysis of the sample may be recorded in one or more log entries using TID 3109 "Measurements", or in a separate Structured Report SOP Instance referenced by a log entry using TID 3103 "Referenced Object".

Type: Extensible
Order: Significant
Root: No

Table TID 3112. Specimen Obtained

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|----|----------|-----------|---------------------------------|
| 1 | | | CODE | EV (121123, DCM, "Patient Status or Event") | 1 | M | | DCID 3515 "Specimen Collection" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---------------------------------------|----|----------|------------------------------|---|
| 2 | > | HAS ACQ CONTEXT | CODE | EV (R-00254, SRT, "Specimen Type") | 1 | UC | IFF specimen is blood sample | DCID 3520 "Blood Source Type" |
| 3 | > | HAS ACQ CONTEXT | CODE | EV (G-C0E9, SRT, "Procedure site") | 1 | U | | BCID 3630 "Cardiovascular Anatomic Locations" |
| 4 | > | HAS PROPERTIES | INCLUDE | DTID 1009 "Subject Context, Specimen" | 1 | U | | |

TID 3113 Patient Support

The Patient Support Template allows recording of the use of various support technologies, including oxygen, ventilation, pacing, etc.

Type: Extensible
Order: Significant
Root: No

Table TID 3113. Patient Support

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|----|----------|---|-----------------------------------|
| 1 | | | CODE | DCID 3530 "Oxygen Administration Actions" | 1 | U | | DCID 3531 "Oxygen Administration" |
| 2 | > | HAS PROPERTIES | NUM | EV (121160, DCM, "Oxygen Administration Rate") | 1 | MC | IFF Row 1 Concept is (121161, DCM, "Begin Oxygen Administration") | UNITS = DT (l/min, UCUM, "l/min") |
| 3 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |
| 4 | | | CODE | DCID 3550 "Circulatory Support Actions" | 1 | U | | DCID 3553 "Circulatory Support" |
| 5 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |
| 6 | | | CODE | DCID 3551 "Ventilation Actions" | 1 | U | | DCID 3554 "Ventilation" |
| 7 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |
| 8 | | | CODE | DCID 3552 "Pacing Actions" | 1 | U | | DCID 3555 "Pacing" |
| 9 | > | | INCLUDE | DTID 3010 "Log Entry Qualifiers" | 1 | U | | |

TID 3114 Patient Assessment

The Patient Assessment Template allows recording of the assessment of the patient's cardiovascular, neurological, and/or respiratory condition. A particular use of this Template is for "vital signs", which are a specific subset of mandatory patient assessment measurements.

Type: Extensible
Order: Significant
Root: No

Table TID 3114. Patient Assessment

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|--|---|
| 1 | | | CODE | EV (121123, DCM, "Patient Status or Event") | 1 | M | | DT (121165, DCM, "Patient Assessment Performed") DT (PA-00500, SRT, "Observation of Vital Signs") |
| 2 | > | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1 | MC | IF Row 1 value = (PA-00500, SRT, "Observation of Vital Signs") | \$Measurement = EV (F-008EC, SRT, "Systolic blood pressure") \$Units = DCID 3500 "Pressure Units" \$Method = BCID 3560 "Blood Pressure Methods" |
| 3 | > | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1 | MC | IF Row 1 value = (PA-00500, SRT, "Observation of Vital Signs") | \$Measurement = EV (F-008ED, SRT, "Diastolic blood pressure") \$Units = DCID 3500 "Pressure Units" |
| 4 | > | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1 | MC | IF Row 1 value = (PA-00500, SRT, "Observation of Vital Signs") | \$Measurement = EV (8867-4, LN, "Heart rate") \$Units = EV ({H.B.}/min, UCUM, "BPM") |
| 5 | > | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1 | MC | IF Row 1 value = (PA-00500, SRT, "Observation of Vital Signs") | \$Measurement = EV (8310-5, LN, "Body temperature") \$Units = EV (Cel, UCUM, "C") |
| 6 | > | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1 | MC | IF Row 1 value = (PA-00500, SRT, "Observation of Vital Signs") | \$Measurement = DCID 3526 "Blood Gas Saturation" \$Units = EV (% , UCUM, "%") |
| 7 | > | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1 | MC | IF Row 1 value = (PA-00500, SRT, "Observation of Vital Signs") | \$Measurement = EV (F-21000, SRT, "Respiration rate") \$Units = EV (/min, UCUM, "breaths/min") |
| 8 | > | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1-n | MC | IF Row 1 value = (PA-00500, SRT, "Observation of Vital Signs") | \$Measurement = EV (122195, DCM, "Pulse Strength") \$Method = BCID 3442 "Peripheral Pulse Methods" \$TargetSite = BCID 3440 "Peripheral Pulse Locations" \$Units = DT ({0:4}, UCUM, "range 0:4") |
| 9 | > | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1 | MC | IF Row 1 value = (PA-00500, SRT, "Observation of Vital Signs") | \$Measurement = EV (F-009EA, SRT, "Pain Score") \$Units = DT ({1:10}, UCUM, "range 1:10") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|--|-----|----------|-----------|---------------------------------|
| 10 | > | HAS PROPERTIES | CODE | DT (8884-9, LN, "Cardiac Rhythm") | 1 | U | | BCID 3415 "Cardiac Rhythms" |
| 11 | > | HAS PROPERTIES | CODE | DT (9304-7, LN, "Respiration Rhythm") | 1 | U | | BCID 3416 "Respiration Rhythms" |
| 12 | > | HAS PROPERTIES | CODE | DT (F-043E6, SRT, "Respiration Assessment") | 1 | U | | BCID 3448 "Airway Assessment" |
| 13 | > | HAS PROPERTIES | CODE | DT (F-046D8, SRT, "Skin condition") | 1-n | U | | BCID 3446 "Skin Condition" |
| 14 | > | HAS PROPERTIES | CODE | DT (F-04317, SRT, "Patient mental state assessment") | 1 | U | | No BCID |
| 15 | > | HAS PROPERTIES | TEXT | BCID 3441 "Patient Assessments" | 1-n | U | | |

Content Item Descriptions

| | |
|--------|---|
| Row 8 | Pulse Strength allows the assessment of the patient's pulse at multiple locations using the Topographical concept modifier. It may also be used for a single pulse strength measurement from an unspecified location, as is typical of vital signs assessments. |
| Row 16 | Allows free text description of patient assessments that are not expressible by coded entries of Rows 10 to 14. |

TID 3115 ECG ST Assessment

The ECG ST Assessment Template allows recording of the assessment of changes in the patient ECG relative to baseline.

Type: Extensible
Order: Significant
Root: No

Table TID 3115. ECG ST Assessment

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|-----|----------|-----------|-----------------------------------|
| 1 | | | CODE | EV (121123, DCM, "Patient Status or Event") | 1 | M | | DT (R-41D8B, SRT, "ECG Analysis") |
| 2 | > | HAS PROPERTIES | NUM | DT (122099, DCM, "ST change from baseline") | 1-n | M | | UNITS = EV (uV, UCUM, "uV") |
| 3 | >> | HAS CONCEPT MOD | CODE | DT (122148, DCM, "Lead ID") | 1 | M | | BCID 3001 "ECG Leads" |

Quantitative Ventricular Analysis Report SR IOD Templates

The Templates that comprise the Quantitative Ventricular Analysis SR are interconnected as in Figure A-3:

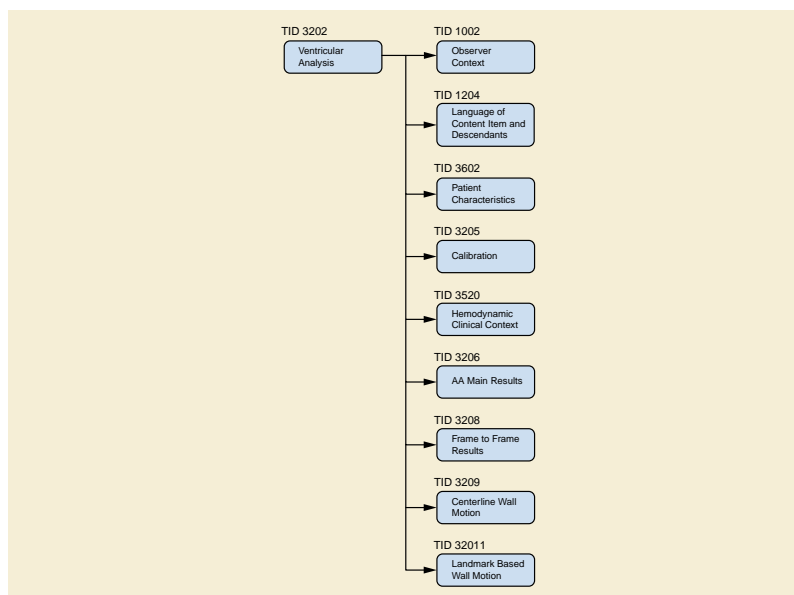


Figure A-3. Quantitative Ventricular Analysis Report SR IOD Template Structure

TID 3202 Ventricular Analysis

The Ventricular Analysis Template provides a CONTAINER with a structure for reporting the result of the ventricular analysis.

Type: Extensible
Order: Significant
Root: No

Table TID 3202. Ventricular Analysis

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (122292, DCM, "Quantitative Ventriculography Report") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | M | | |
| 4 | > | CONTAINS | INCLUDE | DTID 3602 "Cardiovascular Patient Characteristics" | 1 | U | | |
| 5 | > | CONTAINS | CONTAINER | EV (122144, DCM, "Quantitative Analysis") | 1-n | M | | |
| 6 | >> | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | U | | |
| 7 | >> | HAS OBS CONTEXT | TEXT | EV (111001, DCM, "Algorithm Name") | 1 | M | | |
| 8 | >> | HAS OBS CONTEXT | TEXT | EV (111003, DCM, "Algorithm Version") | 1 | M | | |
| 9 | >> | HAS OBS CONTEXT | TEXT | EV (122405, DCM, "Algorithm Manufacturer") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|---------|---|-----|----------|---|---|
| 10 | >> | CONTAINS | IMAGE | EV (121112, DCM, "Source of Measurement") | 1-n | M | | |
| 11 | >>> | HAS CONCEPT MOD | CODE | EV (G-A60B, SRT, "Cardiac Phase") | 1 | M | | DCID 12233 "Cardiac Phase" |
| 12 | >>> | HAS CONCEPT MOD | CODE | EV (111031, DCM, "Image View") | 1 | MC | If Biplane Analysis | DCID 3466 "Plane Identification" |
| 13 | >> | HAS ACQ CONTEXT | INCLUDE | DTID 3205 "Calibration" | 1-2 | U | VM = 1: Single plane analysis, VM = 2: Biplane analysis | \$CalibrationPlane = DCID 3466 "Plane Identification" |
| 14 | >> | HAS ACQ CONTEXT | INCLUDE | DTID 3520 "Hemodynamic Clinical Context" | 1 | U | | |
| 15 | >> | CONTAINS | INCLUDE | DTID 3206 "VA Main Results" | 1 | M | | |
| 16 | >> | CONTAINS | INCLUDE | DTID 3207 "AA Main Results" | 1 | U | | |
| 17 | >> | CONTAINS | INCLUDE | DTID 3208 "Frame-to-Frame Results" | 1 | U | | |
| 18 | >> | CONTAINS | INCLUDE | DTID 3209 "Centerline Wall Motion" | 1-2 | U | VM = 1: Single plane analysis, VM = 2: Biplane analysis | |
| 19 | >> | CONTAINS | INCLUDE | DTID 3210 "Radial Based Wall Motion" | 1-2 | U | VM = 1: Single plane analysis, VM = 2: Biplane analysis | |
| 20 | >> | CONTAINS | INCLUDE | DTID 3211 "Landmark Based Wall Motion" | 1-2 | U | VM = 1: Single plane analysis, VM = 2: Biplane analysis | |

Content Item Descriptions

| | |
|--------|--|
| Row 7 | Identifies the Ventricular Analysis program |
| Row 8 | Identifies the Ventricular Analysis program version |
| Row 9 | Identifies the Ventricular Analysis program manufacturer |
| Row 10 | Identifies the ES and ED images on which the analysis is based, for frame by frame analysis the analyzed image are specified in the frame by frame results (3208) Template |

TID 3205 Calibration

The Calibration Template consists of a CONTAINER, with a structure for reporting of the calibration of images used in the analysis.

Table TID 3205. Parameters

| Parameter Name | Parameter Usage |
|--------------------|------------------|
| \$CalibrationPlane | XA Imaging plane |

Type: Extensible
Order: Significant
Root: No

Table TID 3205. Calibration

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|----|----------|---|--|
| 1 | | | CONTAINER | EV (122505, DCM, "Calibration") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111031, DCM, "Image View") | 1 | U | | \$CalibrationPlane |
| 3 | > | HAS OBS CONTEXT | TEXT | EV (111001, DCM, "Algorithm Name") | 1 | MC | IF different from Analysis program specified in the invoking Template | |
| 4 | > | HAS OBS CONTEXT | TEXT | EV (111003, DCM, "Algorithm Version") | 1 | MC | IF different from Analysis program specified in the invoking Template | |
| 5 | > | HAS OBS CONTEXT | TEXT | EV (122405, DCM, "Algorithm Manufacturer") | 1 | MC | IF different from Analysis program specified in the invoking Template | |
| 6 | > | CONTAINS | CODE | EV (122422, DCM, "Calibration Method") | 1 | M | | DCID 3452 "Calibration Methods" |
| 7 | > | CONTAINS | CODE | EV (122421, DCM, "Calibration Object") | 1 | MC | If row 6 value specifies Calibration Object Used | DCID 3451 "Calibration Objects" |
| 8 | > | CONTAINS | NUM | EV (122423, DCM, "Calibration Object Size") | 1 | MC | If row 6 value specifies Calibration Object Used | DCID 3510 "Catheter Size Units" |
| 9 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (111026, DCM, "Horizontal Pixel Spacing") \$Unit = DT (mm/{pixel}, UCUM, "mm/pixel") \$ImagePurpose = EV (121112, DCM, "Source of Measurement") |
| 10 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (111066, DCM, "Vertical Pixel Spacing") \$Unit = DT (mm/{pixel}, UCUM, "mm/pixel") \$ImagePurpose = EV (121112, DCM, "Source of Measurement") |
| 11 | > | CONTAINS | IMAGE | No purpose of reference | 1 | U | | |

Content Item Descriptions

| | |
|-------|------------------------------------|
| Row 3 | Identifies the Calibration program |
|-------|------------------------------------|

| | |
|-----------|--|
| Row 4 | Identifies the Calibration program version |
| Row 5 | Identifies the Calibration program manufacturer |
| Row 7 | Besides a Sphere and a Catheter, a Distance can be identified as a Calibration Object. In this case a distance measurement of a known dimension of the object is used to calculate the pixel size. |
| Row 8 | The catheter size units is also used to specify the size of other calibration objects (e.g., sphere) |
| Row 9, 10 | Spacing in the patient body. Point to a single frame containing the image used for calibration if applicable, the actual measurements may be indicated by a SCOORD (see TID 320 "Image or Spatial Coordinates", row 3) |
| Row 11 | Secondary Capture image with calibration position |

TID 3206 VA Main Results

The VA Main Results Template consists of a CONTAINER with a structure for reporting the main ventricular analysis measurements.

Type: Extensible
Order: Significant
Root: No

Table TID 3206. VA Main Results

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DCID 3462 "Chamber Identification" |
| 3 | > | CONTAINS | CODE | EV (122429, DCM, "Volume Method") | 1 | M | | DCID 3453 "Cardiac Volume Methods" |
| 4 | > | CONTAINS | NUM | EV (122435, DCM, "Regression Volume Exponent") | 1 | U | | Unit = DT (1, UCUM, "no units") |
| 5 | > | CONTAINS | NUM | EV (122431, DCM, "Regression Slope ED") | 1 | U | | Unit = DT ({ratio}, UCUM, "ratio") |
| 6 | > | CONTAINS | NUM | EV (122432, DCM, "Regression Offset ED") | 1 | U | | Unit = DT (ml, UCUM, "ml") |
| 7 | > | CONTAINS | NUM | EV (122433, DCM, "Regression Slope ES") | 1 | U | | Unit = DT ({ratio}, UCUM, "ratio") |
| 8 | > | CONTAINS | NUM | EV (122434, DCM, "Regression Offset ES") | 1 | U | | Unit = DT (ml, UCUM, "ml") |
| 9 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = DCID 3467 "Ejection Fraction" \$Unit = DT (% , UCUM, "%") |
| 10 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DCID 3468 "ED Volume" \$Unit = DT (ml, UCUM, "ml") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|-------------------------------|----|----------|-----------|---|
| 11 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DCID 3469 "ES Volume" \$Unit = DT (ml, UCUM, "ml") |
| 12 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32120, SRT, "Stroke Volume") \$Unit = DT (ml, UCUM, "ml") |
| 13 | > | CONTAINS | NUM | EV (8867-4, LN, "Heart Rate") | 1 | U | | Unit = DT ({H.B.}/min, UCUM, "BPM") |
| 14 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DCID 3468 "ED Volume" \$ModType = EV (121425, DCM, "Index") \$ModValue = DCID 3455 "Index Methods" \$Unit = DT (ml/m2, UCUM, "ml/m2") |
| 15 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DCID 3468 "ED Volume" \$ModType = EV (121425, DCM, "Index") \$ModValue = EV (29463-7, LN, "Patient Weight") \$Unit = DT (ml/kg, UCUM, "ml/kg") |
| 16 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DCID 3469 "ES Volume" \$ModType = EV (121425, DCM, "Index") \$ModValue = DCID 3455 "Index Methods" \$Unit = DT (ml/m2, UCUM, "ml/m2") |
| 17 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DCID 3469 "ES Volume" \$ModType = EV (121425, DCM, "Index") \$ModValue = EV (29463-7, LN, "Patient Weight") \$Unit = DT (ml/kg, UCUM, "ml/kg") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---------------------------|----|----------|-----------|--|
| 18 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32120, SRT, "Stroke Volume") \$ModType = EV (121425, DCM, "Index") \$ModValue = DCID 3455 "Index Methods" \$Unit = DT (ml/m2, UCUM, "ml/m2") |
| 19 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32120, SRT, "Stroke Volume") \$ModType = EV (121425, DCM, "Index") \$ModValue = EV (29463-7, LN, "Patient Weight") \$Unit = DT (ml/kg, UCUM, "ml/kg") |
| 20 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32100, SRT, "Cardiac Output") \$Unit = DT (l/min, UCUM, "l/min") |
| 21 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32110, SRT, "Cardiac Index") \$ModType = EV (121425, DCM, "Index") \$ModValue = DCID 3455 "Index Methods" \$Unit = DT (l/min/m2, UCUM, "l/min/m2") |
| 22 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122445, DCM, "Wall Thickness") \$Unit = DT (mm, UCUM, "mm") |
| 23 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122446, DCM, "Wall Volume") \$Unit = DT (ml, UCUM, "ml") |
| 24 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122447, DCM, "Wall Mass") \$Unit = DT (g, UCUM, "gram") |
| 25 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122447, DCM, "Wall Mass") \$ModType = EV (121425, DCM, "Index") \$ModValue = DCID 3455 "Index Methods" \$Unit = DT (g/m2, UCUM, "gram/m2") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---------------------------|-----|----------|-----------|--|
| 26 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122447, DCM, "Wall Mass") \$ModType = EV (121425, DCM, "Index") \$ModValue = EV (29463-7, LN, "Patient Weight") \$Unit = DT (g/kg, UCUM, "gram/kg") |
| 27 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122448, DCM, "Wall Stress") \$Unit = DT (dyn/cm2, UCUM, "dynes/cm2") |
| 28 | > | CONTAINS | IMAGE | No purpose of reference | 1-n | U | | |

Content Item Descriptions

| | |
|--------|--|
| Row 28 | Secondary Capture image with ED and/or ES contours |
|--------|--|

TID 3207 AA Main Results

The AA Main Results Template consists of a CONTAINER with a structure for reporting the main atrial analysis measurements.

Type: Extensible
Order: Significant
Root: No

Table TID 3207. AA Main Results

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|------------------------------------|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DCID 3462 "Chamber Identification" |
| 3 | > | CONTAINS | CODE | EV (122429, DCM, "Volume Method") | 1 | M | | DCID 3453 "Cardiac Volume Methods" |
| 4 | > | CONTAINS | NUM | EV (122435, DCM, "Regression Volume Exponent") | 1 | U | | Unit = DT (1, UCUM, "no units") |
| 5 | > | CONTAINS | NUM | EV (122431, DCM, "Regression Slope ED") | 1 | U | | Unit = DT ({ratio}, UCUM, "ratio") |
| 6 | > | CONTAINS | NUM | EV (122432, DCM, "Regression Offset ED") | 1 | U | | Unit = DT (ml, UCUM, "ml") |
| 7 | > | CONTAINS | NUM | EV (122433, DCM, "Regression Slope ES") | 1 | U | | Unit = DT ({ratio}, UCUM, "ratio") |
| 8 | > | CONTAINS | NUM | EV (122434, DCM, "Regression Offset ES") | 1 | U | | Unit = DT (ml, UCUM, "ml") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|-------------------------|-----|----------|-----------|---|
| 9 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DCID 3468 "ED Volume" \$Unit = DT (ml, UCUM, "ml") |
| 10 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DCID 3469 "ES Volume" \$Unit = DT (ml, UCUM, "ml") |
| 11 | > | CONTAINS | IMAGE | No purpose of reference | 1-n | U | | |

Content Item Descriptions

| | |
|--------|--|
| Row 11 | Secondary Capture image with ED and/or ES contours |
|--------|--|

TID 3208 Frame-to-Frame Results

The Frame-to-Frame Result Template consists of a CONTAINER providing measurements derived from the angiographic images on frame-by-frame basis.

Type: Extensible
Order: Significant
Root: No

Table TID 3208. Frame-To-Frame Result

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|---|--|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111004, DCM, "Analysis Performed") | 1 | M | | EV (122499, DCM, "Frame to Frame Analysis") |
| 3 | > | CONTAINS | IMAGE | EV (121112, DCM, "Source of Measurement") | 1-2 | M | VM = 1: Single plane analysis, VM = 2: Biplane analysis | |
| 4 | > | CONTAINS | CODE | EV (122429, DCM, "Volume Method") | 1 | M | | DCID 3453 "Cardiac Volume Methods" |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$Measurement = DCID 3471 "Estimated Volumes" \$TargetSite = DCID 3462 "Chamber Identification" \$Unit = DT (ml, UCUM, "ml") |
| 6 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (122445, DCM, "Wall Thickness") \$Unit = DT (mm, UCUM, "mm") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-------|-------------------------|-----|----------|-----------|----------------------|
| 7 | > | CONTAINS | IMAGE | No purpose of reference | 1-n | U | | |

Content Item Descriptions

| | |
|----------|---|
| Row 3 | Identifies each frame analyzed, using the multi-valued Referenced Frame Number (0008,1160) attribute of the IMAGE Content Item. |
| Row 5, 6 | Includes one measurement for each frame referenced in Row 3. |
| Row 7 | Secondary Capture image with ventricular contours |

TID 3209 Centerline Wall Motion

The Centerline Wall Motion Template consists of a CONTAINER providing measurements of the centerline wall motion.

Type: Extensible
Order: Significant
Root: No

Table TID 3209. Centerline Wall Motion

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111004, DCM, "Analysis Performed") | 1 | M | | EV (122449, DCM, "Centerline Wall Motion Analysis") |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (122410, DCM, "Contour Realignment") | 1 | M | | DCID 3458 "Contour Realignment" |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 100 | M | | \$Measurement = EV (122450, DCM, "Normalized Chord Length") \$Unit = DT (% , UCUM, "%") |
| 5 | > | CONTAINS | NUM | EV (122411, DCM, "Threshold Value") | 1 | M | | Values shall be 1, 2 or 3 UNITS = EV ({sd}, UCUM, "Standard Deviations") |
| 6 | > | CONTAINS | CONTAINER | EV (122451, DCM, "Abnormal Region") | 1-6 | U | | |
| 7 | >> | CONTAINS | CODE | EV (F-32050, SRT, "Cardiac Wall Motion") | 1 | M | | DCID 3703 "Wall Motion" |
| 8 | >> | CONTAINS | CODE | EV (R-404F0, SRT, "Circumferential Extent") | 1 | U | | DCID 3460 "Circumferential Extent" |
| 9 | >> | CONTAINS | NUM | EV (122452, DCM, "First Chord of Abnormal Region") | 1 | M | | Unit = DT (1, UCUM, "no unit") |
| 10 | >> | CONTAINS | NUM | EV (122453, DCM, "Last Chord of Abnormal Region") | 1 | M | | Unit = DT (1, UCUM, "no unit") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|--|
| 11 | > | CONTAINS | CONTAINER | EV (122417, DCM, "Regional Abnormal Wall Motion ") | 1-4 | U | | |
| 12 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DCID 3461 "Regional Extent" |
| 13 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (122459, DCM, "Territory Region Severity") \$ModType = EV (F-32050, SRT, "Cardiac Wall Motion") \$ModValue = DCID 3703 "Wall Motion" \$Unit = DT ({sd}, UCUM, "Standard Deviations") |
| 14 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (122461, DCM, "Opposite Region Severity") \$ModType = EV (F-32050, SRT, "Cardiac Wall Motion") \$ModValue = DCID 3703 "Wall Motion" \$Unit = DT ({sd}, UCUM, "Standard Deviations") |
| 15 | > | CONTAINS | IMAGE | No purpose of reference | 1 | U | | |

Content Item Descriptions

| | |
|--------|--|
| Row 4 | Normalized lengths of the chords determined between ED and ES contour. The measurement Template allows the specification of the statistical properties of the normal population and of the chord measurement relative to the population. |
| Row 8 | If the Circumferential Extent is not specified no limitations to the boundaries for regions are assumed. |
| Row 11 | The Regional Abnormal Wall Motion container holds the information on the severity of the decreased or increased wall motion of the 4 predefined regions as described in [Sheehan, 1986]. |
| Row 12 | The name of the region with an abnormal ventricular wall motion as described in [Sheehan, 1986]. |
| Row 13 | The severity of the wall motion abnormality expressed in Standard Deviations above or below normal in the territory region as described in [Sheehan, 1986]. |
| Row 14 | The severity of the wall motion abnormality expressed in Standard Deviations above or below normal in the opposite region as described in [Sheehan, 1986]. |
| Row 15 | Secondary Capture image with centerline analysis result |

TID 3210 Radial Based Wall Motion

The Radial Based Wall Motion Template consists of a CONTAINER providing measurements of the radial based wall motion.

Type: Extensible
Order: Significant
Root: No

Table TID 3210. Radial Based Wall Motion

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|---|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111004, DCM, "Analysis Performed") | 1 | M | | EV (122493, DCM, "Radial Based Wall Motion Analysis") |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (122410, DCM, "Contour Realignment") | 1 | M | | DCID 3458 "Contour Realignment" |
| 4 | > | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1-n | M | | |
| 5 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DCID 3718 "Myocardial Wall Segments in Projection" |
| 6 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (122495, DCM, "Regional Contribution to Ejection Fraction") \$Unit = DT (% , UCUM, "%") |
| 7 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (122496, DCM, "Radial Shortening") \$Unit = DT (% , UCUM, "%") |
| 8 | > | CONTAINS | IMAGE | No purpose of reference | 1 | U | | |

Content Item Descriptions

| | |
|-------|--|
| Row 6 | The CREF values of the 6 regions determined for the radial based wall motion |
| Row 7 | The shortening of the measured radials within the region |
| Row 8 | Secondary Capture image with radial based analysis result |

TID 3211 Landmark Based Wall Motion

The Landmark Based Wall Motion Template consists of a CONTAINER providing measurements of the landmark based wall motion.

Type: Extensible
Order: Significant
Root: No

Table TID 3211. Landmark Based Wall Motion

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|---|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111004, DCM, "Analysis Performed") | 1 | M | | EV (122497, DCM, "Landmark Based Wall Motion Analysis") |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (122410, DCM, "Contour Realignment") | 1 | M | | DCID 3458 "Contour Realignment" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|----------------------------------|-----|----------|-----------|---|
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$Measurement = EV (122498, DCM, "Slice Contribution to Ejection Fraction") \$Unit = DT (% , UCUM, "%") |
| 5 | > | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 5 | M | | |
| 6 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DCID 3718 "Myocardial Wall Segments in Projection" |
| 7 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (122495, DCM, "Regional Contribution to Ejection Fraction") \$Unit = DT (% , UCUM, "%") |
| 8 | > | CONTAINS | IMAGE | No purpose of reference | 1 | U | | |

Content Item Descriptions

| | |
|-------|---|
| Row 8 | Secondary Capture image with Landmark Based Analysis result |
|-------|---|

Quantitative Arterial Analysis Report SR IOD Templates

The Templates that comprise the Quantitative Arterial Analysis SR are interconnected as in Figure A-4:

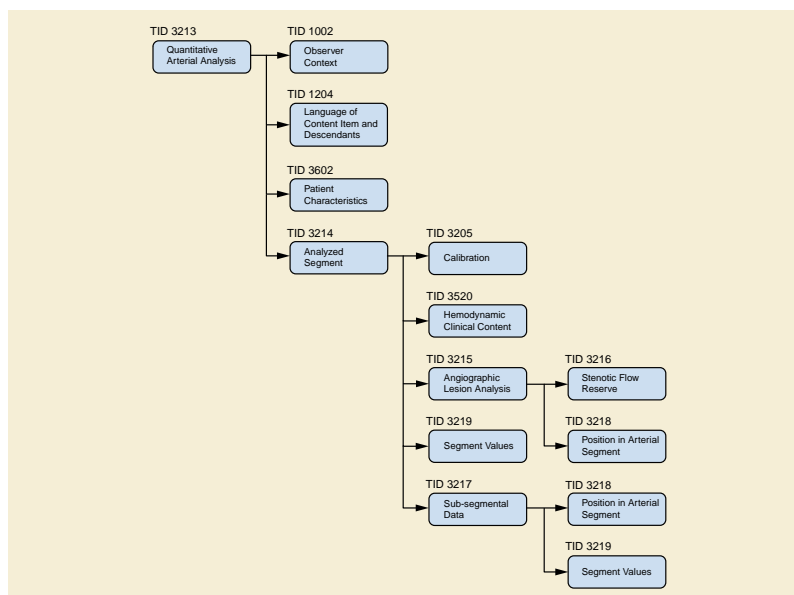


Figure A-4. Quantitative Arterial Analysis Report SR IOD Template Structure

TID 3213 Quantitative Arterial Analysis

The Quantitative Arterial Analysis Template consists of a CONTAINER with a structure for reporting the result of the quantitative arterial analysis process.

Type: Extensible
Order: Significant
Root: No

Table TID 3213. Quantitative Arterial Analysis

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (122291, DCM, "Quantitative Arteriography Report") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | M | | |
| 4 | > | CONTAINS | INCLUDE | DTID 3602 "Cardiovascular Patient Characteristics" | 1 | U | | |
| 5 | > | HAS OBS CONTEXT | TEXT | EV (111001, DCM, "Algorithm Name") | 1 | M | | |
| 6 | > | HAS OBS CONTEXT | TEXT | EV (111003, DCM, "Algorithm Version") | 1 | M | | |
| 7 | > | HAS OBS CONTEXT | TEXT | EV (122405, DCM, "Algorithm Manufacturer") | 1 | M | | |
| 8 | > | CONTAINS | INCLUDE | DTID 3214 "Analyzed Segment" | 1-n | M | | |

Content Item Descriptions

| | |
|-------|---|
| Row 5 | Identifies the Arterial Analysis program |
| Row 6 | Identifies the Arterial Analysis program version |
| Row 7 | Identifies the Arterial Analysis program manufacturer |

TID 3214 Analyzed Segment

The Analyzed Segment Template consists of a CONTAINER providing quantitative arterial analysis measurements derived from the angiographic images.

Type: Extensible
Order: Significant
Root: No

Table TID 3214. Analyzed Segment

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|---|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DCID 3604 "Arterial Lesion Locations" |
| 3 | > | CONTAINS | IMAGE | EV (121112, DCM, "Source of Measurement") | 1 | M | | |
| 4 | > | CONTAINS | INCLUDE | DTID 3205 "Calibration" | 1 | M | | |
| 5 | > | HAS ACQ CONTEXT | INCLUDE | DTID 3520 "Hemodynamic Clinical Context" | 1 | U | | |
| 6 | > | HAS ACQ CONTEXT | CODE | EV (G-72BB, SRT, "Catheterization Procedure Phase") | 1 | U | | DCID 3651 "Hemodynamic Measurement Phase" |
| 7 | > | CONTAINS | SCOORD | EV (122507, DCM, "Left Contour") | 1 | M | | GRAPHIC TYPE = POLYLINE |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|--|
| 8 | >> | R-SELECTED FROM | IMAGE | | 1 | M | | Must reference Row 3 |
| 9 | > | CONTAINS | SCOORD | EV (122508, DCM, "Right Contour") | 1 | M | | GRAPHIC TYPE = POLYLINE |
| 10 | >> | R-SELECTED FROM | IMAGE | | 1 | M | | Must reference Row 3 |
| 11 | > | CONTAINS | INCLUDE | DTID 3219 "Segment Values" | 1 | M | | |
| 12 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Derivation = EV (R-404FB, SRT, "Minimum") \$Unit = DT (mm, UCUM, "mm") |
| 13 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Derivation = EV (G-A437, SRT, "Maximum") \$Unit = DT (mm, UCUM, "mm") |
| 14 | > | CONTAINS | CONTAINER | EV (122509, DCM, "Diameter Graph") | 1 | U | | |
| 15 | >> | CONTAINS | NUM | EV (122511, DCM, "Graph Increment") | 1 | M | | Value = 1 UNITS = DT ({pixels}, UCUM, "pixels") |
| 16 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Unit = DT (mm, UCUM, "mm") |
| 17 | > | CONTAINS | NUM | EV (122382, DCM, "Site of Luminal Minimum ") | 1 | U | | UNITS = DT ({pixels}, UCUM, "pixels") |
| 18 | > | CONTAINS | NUM | EV (122516, DCM, "Site of Luminal Maximum") | 1 | U | | UNITS = DT ({pixels}, UCUM, "pixels") |
| 19 | > | CONTAINS | INCLUDE | DTID 3215 "Angiographic Lesion Analysis" | 1-n | U | | |
| 20 | > | CONTAINS | INCLUDE | DTID 3217 "Sub-segmental Data" | 1-n | U | | |
| 21 | > | CONTAINS | IMAGE | No purpose of reference | 1 | U | | |

Content Item Descriptions

| | |
|-------|---|
| Row 1 | Observation DateTime (0040,A032) of container needs to be flagged with the time of the analysis |
|-------|---|

| | |
|------------|---|
| Row 6 | Numeric coordinates (x,y) identifying the contour points from proximal to distal of left contour. Left is relative to the direction of the blood flow. |
| Row 9 | Numeric coordinates (x,y) identifying the contour points from proximal to distal of right contour. Right is relative to the direction of the blood flow. |
| Row 12, 13 | Positions are relative to the midpoint between the first left and right contour points and measured along the midline between the left and right contour. |
| Row 14 | The X-axis represents the pixel points of the midline of the vessel from proximal to distal. The points on the midline are not necessarily equidistant. |
| Row 16 | For each point of the midline of the vessel a measurement value for the diameter is calculated. |
| Row 17, 18 | The positions in the graph are related to the points on the midline of the vessel. |
| Row 21 | Secondary Capture image with Arterial Analysis contour. |

Definition of Left and Right defined by the direction of the blood flow as in Figure A-4b:

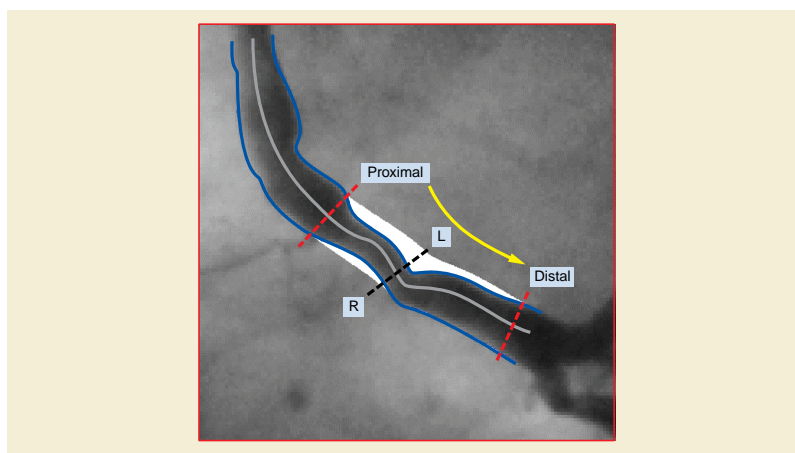


Figure A-4b. Direction of Blood Flow

TID 3215 Angiographic Lesion Analysis

The Angiographic Lesion Analysis Template consists of a CONTAINER providing quantitative arterial analysis measurements derived for an obstruction in a total analyzed segment.

Type: Extensible
Order: Significant
Root: No

Table TID 3215. Angiographic Lesion Analysis

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|-----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (F-03FCD, SRT, "Lesion Finding") | 1 | M | | |
| 2 | > | CONTAINS | TEXT | EV (121151, DCM, "Lesion Identifier") | 1 | M | | |
| 3 | >> | HAS PROPERTIES | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DCID 3604 "Arterial Lesion Locations" |
| 4 | >>> | HAS CONCEPT MOD | CODE | EV (G-A1F8, SRT, "Topographical modifier") | 1 | U | | DCID 3019 "Cardiovascular Anatomic Location Modifiers" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|---------------------------------------|-----|----------|-----------|--|
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Derivation = EV (R-404FB, SRT, "Minimum") \$Unit = DT (mm, UCUM, "mm") |
| 6 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (G-0366, SRT, "Vessel Lumen Cross-Sectional Area") \$Method = DCID 3470 "Vessel Lumen Cross-sectional Area Calculation Methods" \$Derivation = EV (R-404FB, SRT, "Minimum") \$Unit = DT (mm2, UCUM, "mm2") |
| 7 | > | CONTAINS | CODE | EV (122430, DCM, "Reference Method") | 1 | M | | DCID 3465 "QA Reference Methods" |
| 8 | > | CONTAINS | CONTAINER | EV (122438, DCM, "Reference Points") | 1 | U | | |
| 9 | >> | CONTAINS | NUM | EV (122337, DCM, "Relative Position") | 1-n | M | | UNITS = DT (mm, UCUM, "mm") |
| 10 | >>> | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Unit = DT (mm, UCUM, "mm") |
| 11 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$TargetSite = (122382, DCM, "Site of Luminal Minimum") \$Unit = DT (mm, UCUM, "mm") |
| 12 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (G-0366, SRT, "Vessel Lumen Cross-Sectional Area") \$Derivation = EV (122404, DCM, "Reconstructed") \$TargetSite = (122382, DCM, "Site of Luminal Minimum") \$Unit = DT (mm2, UCUM, "mm2") |
| 13 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Derivation = EV (R-41D2D, SRT, "Calculated") \$TargetSite = EV (122481, DCM, "Contour Start") \$Unit = DT (mm, UCUM, "mm") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|---|
| 14 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Derivation = EV (R-41D2D, SRT, "Calculated") \$TargetSite = EV (122482, DCM, "Contour End") \$Unit = DT (mm, UCUM, "mm") |
| 15 | > | CONTAINS | INCLUDE | DTID 3218 "Position in Arterial Segment" | 1 | M | | |
| 16 | > | CONTAINS | CONTAINER | EV (122517, DCM, "Densitometric Luminal Cross-sectional Area Graph") | 1 | U | | |
| 17 | >> | CONTAINS | NUM | EV (122511, DCM, "Graph Increment") | 1 | M | | Value = 1 UNITS = DT ({pixels}, UCUM, "pixels") |
| 18 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$Measurement = EV (G-0366, SRT, "Vessel Lumen Cross-Sectional Area") \$Unit = (mm2, UCUM, "mm2") |
| 19 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (G-0366, SRT, "Vessel Lumen Cross-Sectional Area") \$Derivation = EV (R-41D2D, SRT, "Calculated") \$Method = EV (122474, DCM, "Densitometric method") \$TargetSite = EV (122481, DCM, "Contour Start") \$Unit = (mm2, UCUM, "mm2") |
| 20 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (G-0366, SRT, "Vessel Lumen Cross-Sectional Area") \$Derivation = EV (R-41D2D, SRT, "Calculated") \$Method = EV (122474, DCM, "Densitometric method") \$TargetSite = EV (122482, DCM, "Contour End") \$Unit = (mm2, UCUM, "mm2") |
| 21 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (R-101BC, SRT, "Stenotic Lesion Length") \$Unit = DT (mm, UCUM, "mm") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|-----------------------------------|-----|----------|-----------|---|
| 22 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (R-101BB, SRT, "Lumen Diameter Stenosis") \$Unit = DT (% , UCUM, "%") |
| 23 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (R-101BA, SRT, "Lumen Area Stenosis") \$Method = DCID 3470 "Vessel Lumen Cross-sectional Area Calculation Methods" \$Unit = DT (% , UCUM, "%") |
| 24 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (122372, DCM, "Lumen Volume") \$Method = DCID 3470 "Vessel Lumen Cross-sectional Area Calculation Methods" \$Unit = DT (mm3, UCUM, "mm3") |
| 25 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122542, DCM, "Plaque Area") \$Unit = DT (mm2, UCUM, "mm2") |
| 26 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122376, DCM, "Total Plaque Volume") \$Unit = DT (mm3, UCUM, "mm3") |
| 27 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122544, DCM, "Diameter Symmetry") \$Unit = DT ({ratio}, UCUM, "ratio") |
| 28 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122545, DCM, "Area Symmetry") \$Unit = DT ({ratio}, UCUM, "ratio") |
| 29 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122546, DCM, "Inflow Angle") \$Unit = DT (deg, UCUM, "deg") |
| 30 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122547, DCM, "Outflow Angle") \$Unit = DT (deg, UCUM, "deg") |
| 31 | > | CONTAINS | INCLUDE | DTID 3216 "Stenotic Flow Reserve" | 1 | U | | |
| 32 | > | CONTAINS | IMAGE | No purpose of reference | 1 | U | | |

Content Item Descriptions

| | |
|--------|---|
| Row 8 | Set of user defined reference position for method that requires local reference position. |
| Row 9 | Distance of local reference position from an arbitrary landmark. |
| Row 10 | Diameter at a local reference position. |

| | |
|--------|--|
| Row 11 | The reference diameter for the arterial lesion calculated with the applicable reference method |
| Row 12 | The reference area for the arterial lesion calculated with the applicable reference method |
| Row 13 | The diameter measurement at the start of the reconstruction line in the diameter graph (TID 3214 "Analyzed Segment" Row 14) |
| Row 14 | The diameter measurement at the end of the reconstruction line in the diameter graph (TID 3214 "Analyzed Segment" Row 14) |
| Row 15 | The positions of the lesion, borders of the lesion, etc. |
| Row 16 | The graph with the calculated cross sectional area results based on the densitometric method |
| Row 18 | The cross sectional area measurements calculated based on the densitometric method |
| Row 19 | The cross sectional area measurement at the start of the reconstruction line in the area graph |
| Row 20 | The cross sectional area measurement at the end of the reconstruction line in the area graph |
| Row 21 | Measured along the midline of the left and right contour |
| Row 22 | The diameter stenosis is calculated as follows: $(\text{Reference Luminal Diameter} - \text{Minimum Luminal Diameter} / \text{Reference Luminal Diameter}) * 100\%$ |
| Row 23 | The circular and the densitometric area stenosis are calculated respectively as: $(\text{Reference Vessel Lumen Cross-Sectional Area} - \text{Minimum Luminal Circular Area} / \text{Reference Vessel Lumen Cross-Sectional Area}) * 100\%$ $(\text{Reference Vessel Lumen Cross-Sectional Area} - \text{Minimum Luminal Densitometric Area} / \text{Reference Vessel Lumen Cross-Sectional Area}) * 100\%$ |
| Row 24 | Estimated lumen volume between proximal border and distal border of lesion (TID 3218 "Position in Arterial Segment", row 1 and 2) |
| Row 32 | Secondary Capture image with obstruction analysis contour |

TID 3216 Stenotic Flow Reserve

The Stenotic Flow Reserve Template consists of a CONTAINER providing quantitative arterial analysis measurements derived for an obstruction in a total analyzed segment.

Type: Extensible
Order: Significant
Root: No

Table TID 3216. Stenotic Flow Reserve

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---------------------------|----|----------|-----------|---|
| 1 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | $\$Measurement = EV (122548, DCM, "Stenotic Flow Reserve")$ $\$Unit = DT (\{ratio\}, UCUM, "ratio")$ |
| 2 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | $\$Measurement = EV (122549, DCM, "Poiseuille Resistance")$ $\$Unit = DT (mm[Hg].s/cm, UCUM, "mmHG.s/cm")$ |
| 3 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | $\$Measurement = EV (122550, DCM, "Turbulence Resistance")$ $\$Unit = DT (mm[Hg].s^2/cm^2, UCUM, "mmHG.s^2/cm^2")$ |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---------------------------|----|----------|-----------|--|
| 4 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (122555, DCM, "Estimated Normal Flow") \$Unit = DT (ml/s, UCUM, "ml/s") |
| 5 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122551, DCM, "Pressure Drop at SFR") \$Unit = DT (mm[Hg], UCUM, "mmHg") |
| 6 | | CONTAINS | IMAGE | No purpose of reference | 1 | U | | |

Content Item Descriptions

| | |
|-------|---|
| Row 6 | Secondary Capture image with SFR analysis contour |
|-------|---|

TID 3217 Sub-segmental Data

The Sub-segmental Data Template consists of a CONTAINER providing quantitative arterial analysis measurements derived for a sub-segment in a total analyzed segment.

Type: Extensible
Order: Significant
Root: No

Table TID 3217. Sub-Segmental Data

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DCID 3604 "Arterial Lesion Locations" |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (G-A1F8, SRT, "Topographical modifier") | 1 | U | | DCID 3019 "Cardiovascular Anatomic Location Modifiers" |
| 4 | > | CONTAINS | CODE | EV (122554, DCM, "Segmentation Method") | 1 | M | | DCID 3456 "Sub-segment Methods" |
| 5 | > | CONTAINS | INCLUDE | DTID 3219 "Segment Values" | 1 | U | | |
| 6 | > | CONTAINS | INCLUDE | DTID 3218 "Position in Arterial Segment" | 1 | M | | |
| 7 | > | CONTAINS | IMAGE | No purpose of reference | 1 | U | | |

Content Item Descriptions

| | |
|-------|---|
| Row 7 | Secondary Capture image with obstruction analysis contour |
|-------|---|

TID 3218 Position in Arterial Segment

The Position in Arterial Segment Template consists of the position Content Items common for the Angiographic Lesion Analysis and Sub-Segmental Data.

Type: Extensible
Order: Significant
Root: No

Table TID 3218. Position in Arterial Segment

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|----|----------|---|---|
| 1 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (122528, DCM, "Position of Proximal Border") \$Unit = DT (mm, UCUM, "mm") |
| 2 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (122529, DCM, "Position of Distal Border") \$Unit = DT (mm, UCUM, "mm") |
| 3 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (122382, DCM, "Site of Luminal Minimum") \$Unit = DT (mm, UCUM, "mm") |
| 4 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (122516, DCM, "Site of Luminal Maximum") \$Unit = DT (mm, UCUM, "mm") |
| 5 | | CONTAINS | NUM | EV (122528, DCM, "Position of Proximal Border") | 1 | UC | IFF TID 3214 "Analyzed Segment" Row 14 is present | UNITS = DT ({pixels}, UCUM, "pixels") |
| 6 | | CONTAINS | NUM | EV (122529, DCM, "Position of Distal Border") | 1 | UC | IFF TID 3214 "Analyzed Segment" Row 14 is present | UNITS = DT ({pixels}, UCUM, "pixels") |
| 7 | | CONTAINS | NUM | EV (122382, DCM, "Site of Luminal Minimum") | 1 | UC | IFF TID 3214 "Analyzed Segment" Row 14 is present | UNITS = DT ({pixels}, UCUM, "pixels") |
| 8 | | CONTAINS | NUM | EV (122516, DCM, "Site of Luminal Maximum") | 1 | UC | IFF TID 3214 "Analyzed Segment" Row 14 is present | UNITS = DT ({pixels}, UCUM, "pixels") |

Content Item Descriptions

| | |
|----------------|--|
| Row 1, 2, 3, 4 | Positions are relative to the midpoint of the first left and right contour points and measured along the midline of the left and right contour |
| Row 5, 6, 7, 8 | The positions are relative to the measurement locations of the Diameter Graph of TID 3214 "Analyzed Segment" row 14. |

TID 3219 Segment Values

The Segment Values Template consists of Content Items providing quantitative arterial analysis measurements for a total analyzed segment or sub segment.

Type: Extensible
Order: Significant
Root: No

Table TID 3219. Segment Values

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---------------------------|----|----------|-----------|---|
| 1 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (122510, DCM, "Length Luminal Segment") \$Unit = DT (mm, UCUM, "mm") |
| 2 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Derivation = EV (R-404FB, SRT, "Minimum") \$Unit = DT (mm, UCUM, "mm") |
| 3 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Derivation = EV (G-A437, SRT, "Maximum") \$Unit = DT (mm, UCUM, "mm") |
| 4 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Derivation = EV (R-00317, SRT, "Mean") \$Unit = DT (mm, UCUM, "mm") |
| 5 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (G-0364, SRT, "Vessel Luminal Diameter") \$Derivation = EV (R-10047, SRT, "Standard Deviation") \$Unit = DT (mm, UCUM, "mm") |

Content Item Descriptions

| | |
|-------|---|
| Row 1 | Measured along the midline of the left and right contour. |
|-------|---|

IVUS Report Templates

The Templates that comprise the IVUS Report within the Evidence Report IOD are interconnected as shown in Figure A-5.

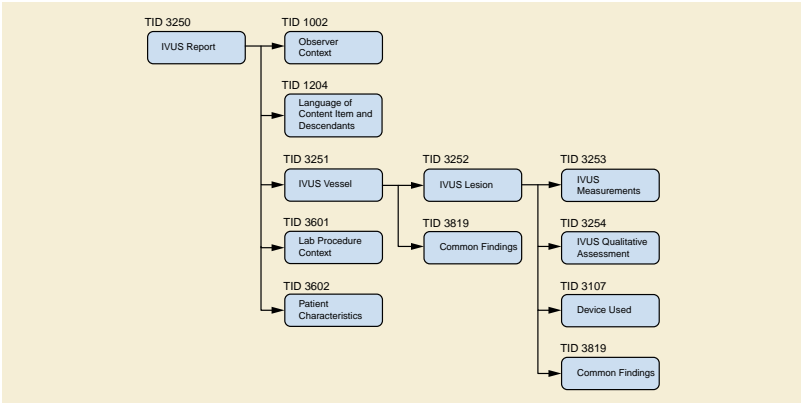


Figure A-5. IVUS Report Template Hierarchy

TID 3250 IVUS Report

The IVUS Report Template is the root structure for the representation of IVUS measurements acquired during a catheterization procedure.

Type: Extensible
Order: Significant
Root: Yes

Table TID 3250. IVUS Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (122325, DCM, "IVUS Report") | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | U | | |
| 4 | > | | INCLUDE | DTID 3601 "Procedure Context" | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 3602 "Cardiovascular Patient Characteristics" | 1 | U | | |
| 6 | > | CONTAINS | CONTAINER | EV (111028, DCM, "Image Library") | 1 | U | | |
| 7 | >> | CONTAINS | IMAGE | No purpose of reference | 1-n | U | | |
| 8 | > | CONTAINS | INCLUDE | DTID 3251 "IVUS Vessel" | 1-n | M | | |

TID 3251 IVUS Vessel

The IVUS Vessel Template provides a structure for grouping one or more lesions analyzed and/or treated during a single phase of a catheterization procedure, according to vessel (or arterial location).

Type: Extensible
Order: Significant
Root: No

Table TID 3251. IVUS Vessel

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|----------------------------|--|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | U | | DCID 3604 "Arterial Lesion Locations" |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (G-A1F8, SRT, "Topographical modifier") | 1 | U | | DCID 3019 "Cardiovascular Anatomic Location Modifiers" |
| 4 | >> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | UC | IFF anatomy has laterality | DCID 244 "Laterality" |
| 5 | > | HAS ACQ CONTEXT | CODE | EV (G-72BB, SRT, "Catheterization Procedure Phase") | 1 | U | | DCID 3480 "IVUS Procedure Phases" |
| 6 | > | CONTAINS | CODE | EV (122134, DCM, "Vessel Morphology") | 1-n | U | | CID 3712 "Vessel Descriptors" |
| 7 | > | CONTAINS | INCLUDE | DTID 3819 "Common Findings" | 1-n | U | | |
| 8 | > | CONTAINS | CODE | EV (115, NCDR [2.0b], "Dissection in segment") | 1 | U | | DCID 230 "Yes-No" |
| 9 | > | CONTAINS | INCLUDE | DTID 3252 "IVUS Lesion" | 1-n | U | | |

TID 3252 IVUS Lesion

The IVUS Lesion Template provides a structure for grouping measurements and observations made on a single lesion during an Intravascular Ultrasound Procedure.

Type: Extensible
Order: Significant
Root: No

Table TID 3252. IVUS Lesion

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|-----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (F-03FCD, SRT, "Lesion Finding") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | TEXT | EV (121151, DCM, "Lesion Identifier") | 1 | M | | Up to 3 numeric characters |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1-n | U | | DCID 3604 "Arterial Lesion Locations" |
| 4 | >>> | HAS CONCEPT MOD | CODE | EV (G-A1F8, SRT, "Topographical modifier") | 1 | U | | DCID 3019 "Cardiovascular Anatomic Location Modifiers" |
| 5 | > | HAS ACQ CONTEXT | INCLUDE | DTID 3107 "Device Used" | 1-n | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|---|----------------------|
| 6 | > | CONTAINS | INCLUDE | DTID 3253 "IVUS Measurements" | 1 | MC | One or both of rows 6 & 7 must be present | |
| 7 | > | CONTAINS | INCLUDE | DTID 3254 "IVUS Qualitative Assessments" | 1 | MC | One or both of rows 6 & 7 must be present | |
| 8 | > | CONTAINS | INCLUDE | DTID 3819 "Common Findings" | 1-n | U | | |

Content Item Descriptions

| | |
|-------|--|
| Row 2 | <p>Lesion Identifier is specified as a numeric text string in order to facilitate trans-coding to DICOM Attribute (0018,3105) Lesion Number and to formats for outcomes registries, such as the ACC National Cardiovascular Data Registry™.</p> <p>Note</p> <p>Also see TID 3105 "Lesion Identification and Properties".</p> |
| Row 3 | Finding site may span multiple segments with the proximal and distal extent specified by separate items. These may not be totally contained with the segment specified at the Vessel level. |

TID 3253 IVUS Measurements

The IVUS measurements Template groups together simple distance, area and angle measurements, along with derived measurements that made during an IVUS procedure. Refer to the "ACC Clinical Expert Consensus Document on Standards for Acquisition, measurement and Reporting of Intravascular Ultrasound Studies (IVUS)" for more information.

Type: Extensible
Order: Significant
Root: No

Table TID 3253. IVUS Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|------------------------|-----|----------|-----------|---|
| 1 | | | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3481 "IVUS Distance Measurements" \$Units = EV (mm, UCUM, "mm") \$Derivation = DCID 3488 "Min/Max/Mean" \$TargetSite = BCID 3486 "Vascular Measurement Sites" |
| 2 | | | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3482 "IVUS Area Measurements" \$Units = EV (mm2, UCUM, "mm2") \$Derivation = DCID 3488 "Min/Max/Mean" \$TargetSite = BCID 3486 "Vascular Measurement Sites" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|-------------------------------------|-----|----------|-----------|---|
| 3 | | | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3483 "IVUS Longitudinal Measurements" \$Units = EV (mm, UCUM, "mm") |
| 4 | | | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (122355, DCM, "Arc of Calcium") \$Units = EV (deg, UCUM, "degrees") \$TargetSite = BCID 3486 "Vascular Measurement Sites" |
| 5 | | | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (R-101BA, SRT, "Lumen Area Stenosis") \$Units = EV (% , UCUM, "%") |
| 6 | | | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122354, DCM, "Plaque Burden") \$Units = EV (% , UCUM, "%") \$TargetSite = BCID 3486 "Vascular Measurement Sites" |
| 7 | | | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3484 "IVUS Indices and Ratios" \$Units = EV ({ratio}, UCUM, "ratio") \$TargetSite = BCID 3486 "Vascular Measurement Sites" |
| 8 | | | INCLUDE | DTID 3255 "IVUS Volume Measurement" | 1-n | U | | |
| 9 | | | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122339, DCM, "Stent Volume Obstruction") \$Units = EV (% , UCUM, "%") |

TID 3254 IVUS Qualitative Assessments

The IVUS Qualitative Assessments Template groups together the qualitative properties of a lesion that are observed during an IVUS procedure. Refer to the "ACC Clinical Expert Consensus Document on Standards for Acquisition, measurement and Reporting of Intravascular Ultrasound Studies (IVUS) " for more information.

Type: Extensible
Order: Significant
Root: No

Table TID 3254. IVUS Qualitative Assessments

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---------------------------------------|-----|----------|-----------|--------------------------------------|
| 1 | | | CODE | EV (122133, DCM, "Lesion Morphology") | 1-n | U | | DCID 3491 "IVUS Lesion Morphologies" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|-----------|---|
| 2 | | | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3494 "IVUS Non Morphological Findings" |
| 3 | > | | INCLUDE | DTID 1350 "Negation Modifier, Presence of Finding" | 1 | U | | |
| 4 | | | CODE | EV (121071, DCM, "Finding") | 1 | U | | EV (D3-81310, SRT, "Arterial Dissection") |
| 5 | > | HAS CONCEPT MOD | CODE | EV (122387, DCM, "Dissection Classification") | 1 | U | | DCID 3492 "Vascular Dissection Classifications" |
| 6 | > | | INCLUDE | DTID 1350 "Negation Modifier, Presence of Finding" | 1 | U | | |
| 7 | | | CODE | EV (122391, DCM, "Relative Stenosis Severity") | 1 | U | | DCID 3493 "IVUS Relative Stenosis Severities" |
| 8 | | | CODE | EV (108, NCDR [2.0b], "Previously Dilated Lesion ") | 1 | U | | DCID 3750 "Previously Dilated Lesion" |
| 9 | | | CODE | EV (121071, DCM, "Finding") | 1 | U | | EV (122393, DCM, "Restenotic Lesion") |
| 10 | > | | INCLUDE | DTID 1350 "Negation Modifier, Presence of Finding" | 1 | U | | |
| 11 | | | CODE | EV (111009, DCM, "Calcification Type") | 1 | U | | DCID 3489 "Calcium Distribution" |

TID 3255 IVUS Volume Measurement

The IVUS Volume Measurement Template contains information describing an IVUS Volumetric measurement

Type: Extensible
Order: Significant
Root: No

Table TID 3255. IVUS Volume Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|----|----------|-----------|--|
| 1 | | | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = DCID 3485 "IVUS Volume Measurements" \$Units = EV (mm3, UCUM, "mm3") \$TargetSite = BCID 3487 "Intravascular Volumetric Regions" |
| 2 | > | HAS PROPERTIES | NUM | EV (122336, DCM, "Vascular Volume measurement length") | 1 | U | | UNITS = DT (mm, UCUM, "mm") |
| 3 | > | HAS PROPERTIES | NUM | EV (122337, DCM, "Relative position") | 1 | U | | UNITS = DT (mm, UCUM, "mm") |
| 4 | >> | HAS CONCEPT MOD | CODE | EV (122340, DCM, "Fiducial feature") | 1 | M | | DCID 3496 "IVUS Fiducial Points" |

Stress Testing Report Templates

TID 3300 Stress Testing Report

The Stress Testing Report Template is the root structure for the representation of measurements and findings of a stress testing procedure.

Type: Extensible
Order: Significant
Root: Yes

Table TID 3300. Stress Testing Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|---|
| 1 | | | CONTAINER | DT (18752-6, LN, "Stress Testing Report") | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | DCID 3200 "Stress Test Procedure" |
| 3 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 4 | > | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | M | | |
| 5 | > | CONTAINS | CONTAINER | EV (18785-6, LN, "Indications for Procedure") | 1 | U | | |
| 6 | >> | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3201 "Indications for Stress Test" |
| 7 | >> | CONTAINS | TEXT | EV (121071, DCM, "Finding") | 1 | U | | |
| 8 | > | CONTAINS | INCLUDE | DTID 3602 "Cardiovascular Patient Characteristics" | 1 | M | | |
| 9 | > | CONTAINS | INCLUDE | DTID 3802 "Cardiovascular Patient History" | 1 | U | | |
| 10 | > | CONTAINS | INCLUDE | DTID 3301 "Stress Test Procedure Description" | 1 | M | | |
| 11 | > | CONTAINS | INCLUDE | DTID 3303 "Stress Test Phase Data" | 1-n | M | | |
| 12 | > | CONTAINS | INCLUDE | DTID 3311 "Stress Test Summary" | 1 | U | | |
| 13 | > | CONTAINS | INCLUDE | DTID 3318 "Comparison to Prior Stress Exam" | 1 | U | | |
| 14 | > | CONTAINS | INCLUDE | DTID 3320 "Conclusions and Recommendations" | 1 | U | | |

TID 3301 Stress Test Procedure Description

Type: Extensible
Order: Significant
Root: No

Table TID 3301. Stress Test Procedure Description

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|---------------------------------|---|
| 1 | | | CONTAINER | DT (55111-9, LN, "Current Procedure Descriptions") | 1 | M | | |
| 2 | > | CONTAINS | CODE | DT (109056, DCM, "Stress Protocol") | 1 | U | | BCID 3261 "Stress Protocols" |
| 3 | > | CONTAINS | TEXT | DT (109056, DCM, "Stress Protocol") | 1 | U | | |
| 4 | > | CONTAINS | CODE | DT (10:11345, MDC, "Lead System") | 1 | U | | BCID 3263 "Electrode Placement Values" |
| 5 | > | CONTAINS | CODE | DT (A-17200, SRT, "Exerciser Device") | 1 | U | | BCID 3203 "Exerciser Device" |
| 6 | > | CONTAINS | CODE | DT (G-C11C, SRT, "Pharmacological Stress Agent") | 1 | MC | IFF Pharmacological Stress used | BCID 3204 "Stress Agents" |
| 7 | > | CONTAINS | CONTAINER | EV (122700, DCM, "Indications for Pharmacological Stress") | 1 | MC | IFF Pharmacological Stress used | |
| 8 | >> | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3205 "Indications for Pharmacological Stress Test" |
| 9 | > | CONTAINS | CODE | DT (P0-0099A, SRT, "Imaging procedure") | 1 | MC | IFF imaging used in procedure | DCID 3206 "Non-invasive Cardiac Imaging Procedures" |
| 10 | > | CONTAINS | CODE | DT (125203, DCM, "Acquisition Protocol") | 1 | UC | IFF Nuclear imaging | DCID 3110 "Nuclear Cardiology Protocols" |
| 11 | > | CONTAINS | CODE | DT (125203, DCM, "Acquisition Protocol") | 1 | UC | IFF PET imaging | DCID 3106 "PET Cardiology Protocols" |
| 12 | > | CONTAINS | TEXT | DT (121141, DCM, "Image Type") | 1 | UC | IFF Nuclear or PET imaging | STATIC, DYNAMIC, or GATED. See note. |
| 13 | > | CONTAINS | CODE | DT (RID11248, RADLEX, "Cardiac Gating") | 1 | U | | DCID 3104 "Cardiac Synchronization Technique" |
| 14 | > | CONTAINS | CODE | DT (125203, DCM, "Acquisition Protocol") | 1 | UC | IFF Contrast echocardiography | DT (P5-B3090, SRT, "Contrast echocardiography") |
| 15 | > | CONTAINS | CODE | DT (113743, DCM, "Patient Orientation") | 1 | U | | DCID 19 "Patient Orientation" |
| 16 | >> | HAS CONCEPT MOD | CODE | EV (113744, DCM, "Patient Orientation Modifier") | 1 | U | | DCID 20 "Patient Orientation Modifier" |
| 17 | > | CONTAINS | TEXT | DT (121065, DCM, "Procedure Description") | 1 | U | | |
| 18 | > | CONTAINS | DATETIME | DT (122701, DCM, "Procedure Time Base") | 1 | U | | See note. |

Content Item Descriptions

| | |
|--------|--|
| Row 12 | Image Type may be copied from the NM Image SOP Instance attribute Image Type (0008,0008) value 3, or from the PET Image SOP Instance attribute Series Type (0054,1000). |
| Row 18 | The Procedure Time Base is the time from which elapsed times are measured. The Study Time (0008,0030) may include the patient prep period, while this Procedure Time Base is typically established when baseline data collection begins. |

TID 3303 Stress Test Phase Data

The Stress Test Phase Data Template provides a structure for measurements acquired during a single procedure phase.

Type: Extensible
Order: Significant
Root: No

Table TID 3303. Stress Test Phase Data

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|---|---|
| 1 | | | CONTAINER | DT (121070, DCM, "Findings") | 1 | M | | See note. |
| 2 | > | HAS ACQ CONTEXT | CODE | EV (G-7292, SRT, "Procedure phase") | 1 | MC | XOR row 3 | BCID 3207 "Stress Test Procedure Phases" |
| 3 | > | HAS ACQ CONTEXT | CODE | EV (G-7292, SRT, "Procedure phase") | 1 | MC | IFF Nuclear Imaging; XOR row 2 | DCID 3101 "Cardiac Procedural State Values" |
| 4 | > | HAS ACQ CONTEXT | TEXT | EV (G-7292, SRT, "Procedure phase") | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 3301 "Stress Test Procedure Description" | 1 | MC | IFF protocol changed from initial specification | |
| 6 | > | HAS ACQ CONTEXT | NUM | EV (109055, DCM, "Protocol Stage") | 1 | U | | UNITS = DT ({stage}, UCUM, "stage") |
| 7 | > | CONTAINS | INCLUDE | DTID 3304 "Stress Test Measurement Group" | 1-n | U | | |
| 8 | > | CONTAINS | INCLUDE | DTID 3307 "NM/PET Perfusion Measurement Group" | 1 | MC | IFF Nuclear or PET Imaging | |
| 9 | > | CONTAINS | INCLUDE | DTID 3309 "Stress Echo Measurement Group" | 1 | UC | IFF Echocardiography Imaging | |

Content Item Descriptions

| | |
|-------|--|
| Row 1 | The Container shall have a specific Content Item Observation DateTime (0040,A032) attribute to indicate the time at which the phase began. |
|-------|--|

TID 3304 Stress Test Measurement Group

Each instance of the Stress Test Measurement Group represents a group of data elements acquired at approximately the same instant, and conventionally rendered as row in a tabular presentation. It is typically generated during the Stress exam whenever a time interval

elapses (for example, every minute of the phase), when a technician observes data worth capturing, or when measurements exceed a given range.

Type: Extensible
Order: Significant
Root: No

Table TID 3304. Stress Test Measurement Group

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|----|----------|---------------------------------|--|
| 1 | | | CONTAINER | DT (121070, DCM, "Findings") | 1 | M | | See note. |
| 2 | > | CONTAINS | NUM | DT (F-031F9, SRT, "Time since start of exam") | 1 | M | | UNITS = DT (min, UCUM, "min") |
| 3 | > | CONTAINS | NUM | DT (122710, DCM, "Time since start of stage") | 1 | M | | UNITS = DT (min, UCUM, "min") |
| 4 | > | CONTAINS | NUM | DT (122702, DCM, "Treadmill speed") | 1 | U | | UNITS = DCID 3212 "Treadmill Speed" |
| 5 | > | CONTAINS | NUM | DT (122703, DCM, "Treadmill gradient") | 1 | U | | UNITS = EV (% , UCUM, "%") |
| 6 | > | CONTAINS | NUM | DT (122704, DCM, "Ergometer power") | 1 | U | | UNITS = EV (W, UCUM, "Watts") |
| 7 | > | CONTAINS | NUM | DT (122709, DCM, "Activity workload") | 1 | U | | UNITS = DT ([MET], UCUM, "METS") |
| 8 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DT (122706, DCM, "Rating of Perceived Exertion") \$Method = BCID 3239 "Perceived Exertion Scales" |
| 9 | > | CONTAINS | NUM | DT (122705, DCM, "Pharmacological Stress Agent Dose Rate") | 1 | MC | IFF Pharmacological Stress used | UNITS = EV (ug/kg/min, UCUM, "ug/kg/min") |
| 10 | > | CONTAINS | INCLUDE | DTID 3106 "Drugs/Contrast Administered" | 1 | U | | See note. |
| 11 | > | CONTAINS | NUM | EV (8867-4, LN, "Heart Rate") | 1 | U | | UNITS = EV ({H.B.}/min, UCUM, "BPM") |
| 12 | > | CONTAINS | NUM | EV (F-008EC, SRT, "Systolic Blood Pressure") | 1 | U | | UNITS = DCID 3500 "Pressure Units" |
| 13 | > | CONTAINS | NUM | EV (F-008ED, SRT, "Diastolic Blood Pressure") | 1 | U | | UNITS = DCID 3500 "Pressure Units" |
| 14 | > | CONTAINS | NUM | DT (122707, DCM, "Number of Ectopic Beats") | 1 | U | | UNITS = EV ({beats}, UCUM, "beats") |
| 15 | >> | HAS PROPERTIES | NUM | DT (R-40861, SRT, "Period of collection") | 1 | M | | UNITS = DT (min, UCUM, "min") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|-----------|---|
| 16 | >> | HAS PROPERTIES | CODE | EV (G-C504, SRT, "Associated Morphology") | 1-n | U | | BCID 3234 "Ectopic Beat Morphology" |
| 17 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DT (F-03204, SRT, "ST Elevation") \$Units = DT (mV, UCUM, "mV") \$TargetSite = DCID 3001 "ECG Leads" |
| 18 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DT (F-38279, SRT, "ST Depression") \$Units = DT (mV, UCUM, "mV") \$TargetSite = DCID 3001 "ECG Leads" |
| 19 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3228 "ECG Timing Measurements" \$Units = DT (ms, UCUM, "ms") \$TargetSite = DCID 3001 "ECG Leads" See note. |
| 20 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3227 "QTc Measurements" \$Units = DT (ms, UCUM, "ms") \$TargetSite = DCID 3001 "ECG Leads" \$Equation = DCID 3678 "QT Correction Algorithms" See note. |
| 21 | >> | INFERRED FROM | NUM | DT (2:16000, MDC, "RR Interval for QTc") | 1 | U | | UNITS = DT (ms, UCUM, "ms") See note. |
| 22 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3229 "ECG Axis Measurements" \$Units = DT (deg, UCUM, "deg") See note. |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|------------------------------------|-----|----------|-----------|--|
| 23 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DCID 3526 "Blood Gas Saturation" \$Units = EV (% , UCUM, "%") |
| 24 | > | CONTAINS | NUM | DT (122708, DCM, "Double Product") | 1 | U | | UNITS = DT (mm[Hg].{H.B.}/min, UCUM, "mmHg.BPM") |
| 25 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3220 "Stress Symptoms" |
| 26 | > | CONTAINS | CODE | EV (F-00033, SRT, "ECG Finding") | 1-n | U | | DCID 3230 "ECG Findings" |
| 27 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

Content Item Descriptions

| | |
|-------------|--|
| Row 1 | The Container shall have a specific Content Item Observation DateTime (0040,A032) attribute to indicate the time at which the measurements were made. |
| Row 10 | Included TID 3106 "Drugs/Contrast Administered" allows the recording of test medications other than the Pharmacological Stress Agent identified in TID 3301 "Stress Test Procedure Description". |
| Rows 17, 18 | ECG ST elevation/depression is measured in units of mV, but is conventionally reported in units of mm, based on strip recordings with scaling of 100 uV/mm. The display application should render these measurements in units meaningful to the user. |
| Row 19 | Note that the MDC codes for "per lead" measurements specified in CID 3228 "ECG Timing Measurements" are base codes for post-coordination with lead identifiers conveyed in the Target Site modifier in TID 300 "Measurement". MDC also defines pre-coordinated codes that include both the measurement and the lead, which may be used in this row. |
| Row 20 | Note that the MDC code for "QTc interval per lead" specified in CID 3227 "QTc Measurements" is a base code for post-coordination with lead identifiers conveyed in the Target Site modifier in TID 300 "Measurement". MDC also defines pre-coordinated codes that include both the measurement and the lead, which may be used in this row. Note that TID 300 "Measurement" enables the encoding of a non-standard correction algorithm, either as a local code, or as a TEXT Method Citation (see TID 300 "Measurement" row 12). |
| Row 21 | R-R interval used for QT correction algorithm |
| Row 22 | Recommended range for ECG axis measurements is -90° to +270° |

TID 3307 NM/PET Perfusion Measurement Group

Type: Extensible
Order: Significant
Root: No

Table TID 3307. NM/PET Perfusion Measurement Group

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|-------------------------------|
| 1 | | | CONTAINER | DT (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | DCID 3108 "NM/PET Procedures" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|----------|--|-----|----------|-----------|--|
| 3 | > | CONTAINS | CODE | EV (F-61FDB, SRT, "Radiopharmaceutical agent") | 1 | M | | DCID 3111 "Nuclear Cardiology Radiopharmaceuticals" |
| 4 | > | CONTAINS | NUM | EV (123006, DCM, "Radionuclide Total Dose") | 1 | M | | DCID 3083 "Units of Radioactivity" |
| 5 | > | CONTAINS | DATETIME | EV (123003, DCM, "Radiopharmaceutical Start DateTime") | 1 | M | | |
| 6 | > | CONTAINS | NUM | DT (122711, DCM, "Exercise duration after stress agent injection") | 1 | U | | UNITS = DT (min, UCUM, "min") |
| 7 | > | CONTAINS | DATETIME | EV (122712, DCM, "Imaging Start DateTime") | 1 | M | | |
| 8 | > | CONTAINS | CODE | EV (122713, DCM, "Attenuation correction") | 1 | U | | BCID 3112 "Attenuation Correction" |
| 9 | >> | HAS PROPERTIES | CODE | EV (111001, DCM, "Algorithm Name") | 1 | U | | BCID 3117 "Attenuation Correction Methods" |
| 10 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | BCID 3113 "Types of Perfusion Defects" |
| 11 | >> | HAS PROPERTIES | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | BCID 3717 "Myocardial Wall Segments" |
| 12 | >> | HAS PROPERTIES | CODE | EV (112025, DCM, "Size Descriptor") | 1 | M | | BCID 252 "S-M-L Size Descriptor" |
| 13 | >> | HAS PROPERTIES | CODE | EV (G-C197, SRT, "Severity") | 1 | M | | BCID 3716 "Severity" |
| 14 | > | CONTAINS | CODE | EV (F-02220, SRT, "Left Ventricular Function") | 1 | U | | BCID 3119 "LV Function" |
| 15 | >> | HAS PROPERTIES | CODE | EV (G-C197, SRT, "Severity") | 1 | U | | BCID 3716 "Severity" |
| 16 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (10230-1, LN, "LV Ejection Fraction") \$Units = EV (% , UCUM, "%") \$Derivation = DT (R-41D2D, SRT, "Calculated") |
| 17 | > | CONTAINS | CODE | EV (F-02236, SRT, "Left Ventricular Size") | 1 | U | | BCID 3122 "Ventricular Enlargement" |
| 18 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (8821-1, LN, "Left Ventricular ED Volume") \$Units = EV (ml, UCUM, "ml") |
| 19 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (8823-7, LN, "Left Ventricular ES Volume") \$Units = EV (ml, UCUM, "ml") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|----------------------------------|----|----------|-----------|---|
| 20 | > | CONTAINS | INCLUDE | DTID 5204 "Wall Motion Analysis" | 1 | U | | \$Procedure = DCID 3108 "NM/PET Procedures" |

TID 3309 Stress Echo Measurement Group

Type: Extensible
 Order: Significant
 Root: No

Table TID 3309. Stress Echo Measurement Group

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|--|--|
| 1 | | | CONTAINER | DT (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | DT (P5-B3000, SRT, "Echocardiography") |
| 3 | > | CONTAINS | INCLUDE | DTID 5203 "Echo Measurement" | 1-n | U | | \$Measurement = DCID 12200 "Echocardiography Left Ventricle" \$Method = CID 12227 "Echocardiography Measurement Method" |
| 4 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | MC | IF Row 3 measurement concept is in CID 12222 "Orifice Flow Properties" | EV (T-32600, SRT, "Left Ventricle") |
| 5 | > | CONTAINS | INCLUDE | DTID 5203 "Echo Measurement" | 1-n | U | | \$Measurement = DCID 12211 "Echocardiography Aortic Valve" \$Method = CID 12227 "Echocardiography Measurement Method" |
| 6 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | MC | IF Row 5 measurement concept is in CID 12222 "Orifice Flow Properties" | EV (T-35400, SRT, "Aortic Valve") |
| 7 | > | CONTAINS | INCLUDE | DTID 5203 "Echo Measurement" | 1-n | U | | \$Measurement = DCID 12207 "Echocardiography Mitral Valve" \$Method = CID 12227 "Echocardiography Measurement Method" |
| 8 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | MC | IF Row 7 measurement concept is in CID 12222 "Orifice Flow Properties" | EV (T-35300, SRT, "Mitral Valve") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|----------------------------------|-----|----------|--|---|
| 9 | > | CONTAINS | INCLUDE | DTID 5203 "Echo Measurement" | 1-n | U | | \$Measurement = DCID 12208 "Echocardiography Tricuspid Valve" \$Method = CID 12227 "Echocardiography Measurement Method" |
| 10 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | MC | IF Row 9 measurement concept is in CID 12222 "Orifice Flow Properties" | EV (T-35100, SRT, "Tricuspid Valve") |
| 11 | > | CONTAINS | INCLUDE | DTID 5204 "Wall Motion Analysis" | 1 | U | | \$Procedure = DT (P5-B3121, SRT, "Echocardiography for Determining Ventricular Contraction") |

Content Item Descriptions

| | |
|-----------|--|
| Rows 3-10 | <p>These invocations of TID 5203 "Echo Measurement" do not include an inherited Findings Site concept, for example as in the invocations of TID 5203 "Echo Measurement" from TID 5202 "Echo Section". Echo measurements that do not have the associated Finding Site pre-coordinated in the measurement concept (i.e., the orifice flow measurements of CID 12222 "Orifice Flow Properties"), shall have the Finding Site explicitly post-coordinated with a Concept Modifier (Rows 4, 6, 8, and 10).</p> <p>This Template does not include the concept of an Image Library, for example as used in TID 5200 "Echocardiography Procedure Report". Image Content Items in the Echo Measurement Template shall be included with by-value relationships, not with by-reference relationships.</p> |
|-----------|--|

TID 3311 Stress Test Summary

Type: Extensible
Order: Significant
Root: No

Table TID 3311. Stress Test Summary

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (121111, DCM, "Summary") | 1 | M | | |
| 2 | > | CONTAINS | TEXT | EV (121111, DCM, "Summary") | 1 | U | | |
| 3 | > | CONTAINS | INCLUDE | DTID 3312 "Physiological Summary" | 1 | U | | |
| 4 | > | CONTAINS | INCLUDE | DTID 3313 "Stress ECG Summary" | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 3317 "Stress Imaging Summary" | 1 | U | | |
| 6 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1 | U | | EV (D3-13025, SRT, "Exercise-induced angina") See note. |
| 7 | >> | | INCLUDE | DTID 1350 "Negation Modifier, Presence of Finding" | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|-----|----------|-----------|---|
| 8 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3220 "Stress Symptoms" |
| 9 | > | CONTAINS | TEXT | EV (121071, DCM, "Finding") | 1 | U | | |
| 10 | > | CONTAINS | CODE | DT (G-0180, SRT, "Reason for stopping test") | 1 | U | | DCID 3221 "Stress Test Termination Reasons" |
| 11 | > | CONTAINS | NUM | DT (122715, DCM, "Pharmacological Stress Agent Dose") | 1 | U | | DT (mg/kg, UCUM, "mg/kg") |

Content Item Descriptions

| | |
|----------|--|
| Rows 6-7 | These rows allow an explicit finding of presence or absence of exercise-induced angina through the TID 1350 "Negation Modifier, Presence of Finding" Concept Modifier "Presence of property" |
|----------|--|

TID 3312 Physiological Summary

Type: Extensible
Order: Significant
Root: No

Table TID 3312. Physiological Summary

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|----|----------|-----------|--------------------------------------|
| 1 | | | NUM | DT (40443-4, LN, "Resting Heart Rate") | 1 | M | | UNITS = DT ({H.B.}/min, UCUM, "BPM") |
| 2 | | | NUM | EV (F-008EC, SRT, "Systolic Blood Pressure") | 1 | M | | UNITS = DCID 3500 "Pressure Units" |
| 3 | > | HAS CONCEPT MOD | CODE | EV (109054, DCM, "Patient State") | 1 | M | | DT (F-01604, SRT, "Resting State") |
| 4 | | | NUM | EV (F-008ED, SRT, "Diastolic Blood Pressure") | 1 | M | | UNITS = DCID 3500 "Pressure Units" |
| 5 | > | HAS CONCEPT MOD | CODE | EV (109054, DCM, "Patient State") | 1 | M | | DT (F-01604, SRT, "Resting State") |
| 6 | | | NUM | DT (F-04F92, SRT, "Target HR") | 1 | M | | UNITS = DT ({H.B.}/min, UCUM, "BPM") |
| 7 | | | NUM | DT (F-04FA6, SRT, "Maximum HR Achieved") | 1 | M | | UNITS = DT ({H.B.}/min, UCUM, "BPM") |
| 8 | | | NUM | DT (F-04FA6, SRT, "Maximum HR Achieved") | 1 | M | | UNITS = EV (% , UCUM, "%") |
| 9 | > | HAS CONCEPT MOD | CODE | EV (121425, DCM, "Index") | 1 | M | | DT (F-04F92, SRT, "Target HR") |
| 10 | | | NUM | DT (122716, DCM, "Maximum Power Output Achieved") | 1 | U | | UNITS = DT (W, UCUM, "Watts") |
| 11 | | | NUM | DT (122717, DCM, "Peak activity workload") | 1 | U | | UNITS = DT ([MET], UCUM, "METS") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|-----------|---|
| 12 | | | CODE | DT (F-04F9F, SRT, "HR Response") | 1 | U | | DCID 3210 "Speed of Response" |
| 13 | | | NUM | DT (F-00E11, SRT, "Maximum systolic blood pressure") | 1 | U | | UNITS = DCID 3500 "Pressure Units" |
| 14 | | | NUM | DT (F-00E21, SRT, "Maximum diastolic blood pressure") | 1 | U | | UNITS = DCID 3500 "Pressure Units" |
| 15 | | | CODE | DT (F-04F74, SRT, "BP Response") | 1 | U | | DCID 3210 "Speed of Response" |
| 16 | | | NUM | DT (122718, DCM, "Peak Double Product") | 1 | U | | UNITS = DT (mm[Hg].{H.B.}/min, UCUM, "mmHg.BPM") |
| 17 | | | NUM | DT (F-031F8, SRT, "Total Exercise duration") | 1 | U | | UNITS = DT (min, UCUM, "min") |
| 18 | | | NUM | DT (F-031F7, SRT, "Total test duration") | 1 | U | | UNITS = DT (min, UCUM, "min") |
| 19 | | | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DT (F-04FCC, SRT, "Functional capacity") See note. |
| 20 | | | TEXT | DT (F-04FCC, SRT, "Functional capacity") | 1 | U | | |
| 21 | | | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (122760, DCM, "Stress test score") \$Method = BCID 3238 "Stress Scoring Scales" |
| 22 | | | NUM | DT (F-04FCA, SRT, "Heart rate recovery time") | 1 | U | | UNITS = DT (s, UCUM, "s") |
| 23 | | | CODE | EV (121071, DCM, "Finding") | 1-n | U | | BCID 3213 "Stress Hemodynamic Findings" |
| 24 | | | CODE | EV (F-00F4E, SRT, "Cardiovascular event risk") | 1 | U | | BCID 3118 "Level of Risk" |

Content Item Descriptions

| | |
|--------|--|
| Row 22 | Numerical scoring of a patient's functional capacity shall include the range of the scoring system in the Units of Measurement (see Section 7.2.2), and may include a coded identifier for the scoring system in the Method concept modifier of TID 300 "Measurement". |
|--------|--|

TID 3313 Stress ECG Summary

Type: Extensible
Order: Significant
Root: No

Table TID 3313. Stress ECG Summary

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|----------------------------------|----|----------|-----------|-------------------------------|
| 1 | | | TEXT | EV (F-00033, SRT, "ECG Finding") | 1 | U | | Device Generated Test Summary |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|--|
| 2 | > | HAS OBS CONTEXT | CODE | EV (121005, DCM, "Observer Type") | 1 | M | | EV (121007, DCM, "Device") |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1004 "Device Observer Identifying Attributes" | 1 | M | | |
| 4 | | | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (F-03204, SRT, "ST Elevation") \$Units = DT (mV, UCUM, "mV") \$Derivation = EV (G-A437, SRT, "Maximum") \$TargetSite = DCID 3001 "ECG Leads" |
| 5 | | | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (F-38279, SRT, "ST Depression") \$Units = DT (mV, UCUM, "mV") \$Derivation = EV (G-A437, SRT, "Maximum") \$TargetSite = DCID 3001 "ECG Leads" |
| 6 | | | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (F-38287, SRT, "T wave alternans") \$Units = DT (uV, UCUM, "uV") \$Derivation = EV (G-A437, SRT, "Maximum") \$TargetSite = DCID 3001 "ECG Leads" |
| 7 | | | CODE | EV (F-38035, SRT, "ST Segment Finding") | 1 | U | | BCID 3231 "ST Segment Findings" |
| 8 | > | HAS PROPERTIES | CODE | EV (G-C0E3, SRT, "Finding Site") | 1-n | U | | BCID 3232 "ST Segment Location" |
| 9 | > | HAS PROPERTIES | CODE | EV (G-C504, SRT, "Associated Morphology") | 1 | U | | BCID 3233 "ST Segment Morphology" |
| 10 | | | NUM | DT (122707, DCM, "Number of Ectopic Beats") | 1 | U | | UNITS = EV ({beats}, UCUM, "beats") |
| 11 | > | HAS PROPERTIES | CODE | EV (G-C504, SRT, "Associated Morphology") | 1-n | U | | BCID 3234 "Ectopic Beat Morphology" |
| 12 | | | CODE | DT (8884-9, LN, "Cardiac Rhythm") | 1-2 | U | | BCID 3415 "Cardiac Rhythms" See note. |
| 13 | > | HAS CONCEPT MOD | CODE | EV (109054, DCM, "Patient State") | 1 | M | | DCID 3102 "Rest-Stress" |
| 14 | | | CODE | EV (F-00033, SRT, "ECG Finding") | 1-n | U | | BCID 3230 "ECG Findings" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|-----------------------------------|----|----------|-----------|--------------------------------------|
| 15 | > | HAS CONCEPT MOD | CODE | EV (109054, DCM, "Patient State") | 1 | U | | BCID 3262 "ECG Patient State Values" |

Content Item Descriptions

| | |
|-----------|---|
| Rows 4-14 | Each observation (measurement or finding) may have a specific Content Item Observation DateTime attribute to indicate the time in the procedure at which the observation was made (e.g., time of maximum heart rate, or time of occurrence of an arrhythmia). |
| Row 12-13 | This Concept and the associated Concept Modifier may be instantiated twice, once for resting state measurements, once for stress. |

TID 3317 Stress Imaging Summary

Type: Extensible
Order: Significant
Root: No

Table TID 3317. Stress Imaging Summary

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|--|
| 1 | | | CODE | DT (122739, DCM, "Overall study quality") | 1 | M | | BCID 3114 "Study Quality" |
| 2 | | | CODE | DT (113010, DCM, "Quality Issue") | 1 | U | | BCID 3115 "Stress Imaging Quality Issues" |
| 3 | | | CODE | EV (121071, DCM, "Finding") | 1 | U | | BCID 3116 "NM Extracardiac Findings" |
| 4 | | | INCLUDE | DTID 300 "Measurement" | 1-2 | U | | \$Measurement = DT (F-04F76, SRT, "Perfusion defect extent") \$ModType = EV (109054, DCM, "Patient State") \$ModValue = DCID 3102 "Rest-Stress" \$Units = EV (% , UCUM, "%") See note. |
| 5 | | | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DT (F-04FCD, SRT, "Stress ischemia extent") \$Units = EV (% , UCUM, "%") |
| 6 | | | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DT (122762, DCM, "Number of diseased vessel territories") \$Units = EV ({territories}, UCUM, "territories") |
| 7 | | | CODE | EV (121071, DCM, "Finding") | 1 | U | | EV (D3-13040, SRT, "Coronary artery disease") |
| 8 | > | HAS PROPERTIES | CODE | EV (G-C0E3, SRT, "Finding Site") | 1-n | M | | BCID 3016 "Major Coronary Arteries" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|--|
| 9 | | | CODE | EV (F-0238D, SRT, "Myocardial perfusion") | 1-2 | U | | BCID 3120 "Perfusion Findings" |
| 10 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | BCID 3463 "Ventricle Identification" |
| 11 | > | HAS PROPERTIES | CODE | EV (G-C504, SRT, "Associated Morphology") | 1 | U | | BCID 3121 "Perfusion Morphology" |
| 12 | | | CODE | EV (121071, DCM, "Finding") | 1 | U | | DT (D4-31124, SRT, "Transient cavitory dilatation") |
| 13 | > | | INCLUDE | DTID 1350 "Negation Modifier, Presence of Finding" | 1 | U | | |
| 14 | | | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DT (F-04FB4, SRT, "Transient cavitory dilatation ratio") \$Units = EV ({ratio}, UCUM, "ratio") |
| 15 | | | INCLUDE | DTID 300 "Measurement" | 1-2 | U | | \$Measurement = EV (10230-1, LN, "LV Ejection Fraction") \$ModType = EV (109054, DCM, "Patient State") \$ModValue = DCID 3102 "Rest-Stress" \$Units = EV (% , UCUM, "%") See note. |

Content Item Descriptions

| | |
|--------|--|
| Row 4 | This row may be instantiated twice, once for resting state measurements, once for stress. |
| Row 15 | The LVEF code specified in this row is defined in LOINC with method "imaging". LVEF measurement by ultrasound may also be encoded elsewhere in the Content Tree (e.g., in TID 3309 "Stress Echo Measurement Group") with LOINC code 18043-0, which has method "ultrasound". It is recommended that such findings from the per-phase measurements be summarized here with the generic "LVEF by Imaging" concept code. |

TID 3318 Comparison to Prior Stress Exam

This Template describes changes in findings from a prior stress exam. Comparison is to only one prior exam, even though the generic concept name for the Template uses the plural "exams".

Type: Extensible
Order: Significant
Root: No

Table TID 3318. Comparison to Prior Stress Exam

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (111424, DCM, "Comparison to previous exams") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|---|
| 2 | > | CONTAINS | CODE | DT (121058, DCM, "Procedure Reported") | 1 | U | | DCID 3200 "Stress Test Procedure" |
| 3 | >> | HAS PROPERTIES | DATETIME | EV (122146, DCM, "Procedure DateTime") | 1 | U | | |
| 4 | >> | HAS PROPERTIES | UIDREF | EV (121018, DCM, "Procedure Study Instance UID") | 1 | U | | |
| 5 | >> | HAS PROPERTIES | COMPOSITE | EV (122075, DCM, "Prior report for current patient") | 1-n | U | | |
| 6 | > | CONTAINS | CODE | DT (F-03D1D, SRT, "Exercise tolerance") | 1 | U | | BCID 3236 "Tolerance Comparison Findings" |
| 7 | > | CONTAINS | CODE | DT (F-0238D, SRT, "Myocardial Perfusion") | 1 | U | | BCID 3235 "Perfusion Comparison Findings" |
| 8 | >> | HAS CONCEPT MOD | CODE | EV (G-C036, SRT, "Measurement Method") | 1-n | U | | BCID 3215 "Perfusion Finding Method" |
| 9 | > | CONTAINS | CODE | DT (F-02225, SRT, "LV Wall motion") | 1-n | U | | BCID 3237 "Wall Motion Comparison Findings" |
| 10 | >> | HAS CONCEPT MOD | CODE | EV (109054, DCM, "Patient State") | 1 | M | | DCID 3102 "Rest-Stress" |
| 11 | > | CONTAINS | CODE | EV (111424, DCM, "Comparison to previous exams") | 1 | U | | BCID 3217 "Comparison Finding" |
| 12 | > | CONTAINS | NUM | DT (122768, DCM, "Difference in Ejection Fraction") | 1 | U | | UNITS = EV (% , UCUM, "%") |
| 13 | > | CONTAINS | NUM | DT (122769, DCM, "Difference in ED LV Volume") | 1 | U | | UNITS = EV (ml, UCUM, "ml") |
| 14 | > | CONTAINS | NUM | DT (122769, DCM, "Difference in ED LV Volume") | 1 | U | | UNITS = EV (ml/m2, UCUM, "ml/m2") |
| 15 | >> | HAS CONCEPT MOD | CODE | EV (121425, DCM, "Index") | 1 | M | | DT (8277-6, LN, "BSA") |

TID 3320 Conclusions and Recommendations

Type: Extensible
Order: Non-Significant
Root: No

Table TID 3320. Conclusions and Recommendations

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|----------------------------------|----|----------|---|--|
| 1 | | | CONTAINER | EV (121076, DCM, "Conclusions") | 1 | MC | IF Completion Flag (0040,A491) = COMPLETE | |
| 2 | > | CONTAINS | TEXT | EV (121077, DCM, "Conclusion") | 1 | U | | |
| 3 | > | CONTAINS | CODE | EV (F-00033, SRT, "ECG Finding") | 1 | M | | DCID 3208 "Summary Codes Exercise ECG" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|----|----------|-----------|---|
| 4 | > | CONTAINS | CODE | EV (F-01969, SRT, "Imaging Finding") | 1 | M | | DCID 3209 "Summary Codes Stress Imaging" |
| 5 | | | CONTAINER | EV (121074, DCM, "Recommendations") | 1 | U | | |
| 6 | > | CONTAINS | TEXT | EV (121075, DCM, "Recommendation") | 1 | U | | |

Hemodynamics Report Templates

The Templates that comprise the Hemodynamic Report are interconnected as shown in Figure A-6.

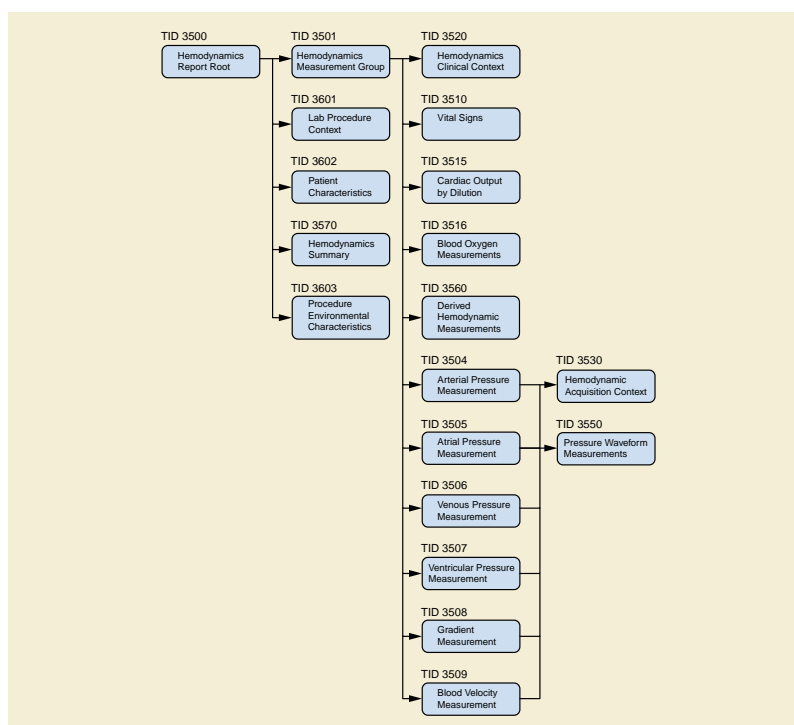


Figure A-6. Hemodynamic Report Template Hierarchy

Figure A-6 shows only the use of Templates specific to the Hemodynamic Report; it does not show common structural Templates such as TID 300 "Measurement".

Note

Figure A-6 shows the relationship of Templates; it does not show the structural hierarchy of Content Items in the IOD. See Figure L-1 "Hemodynamics Report Structure" in PS3.17.

TID 3500 Hemodynamics Report

The Hemodynamic Report Template is the root structure for the representation of measurements acquired during a procedure in a cardiac catheterization lab.

Type: Extensible
Order: Significant
Root: Yes

Table TID 3500. Hemodynamics Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (122120, DCM, "Hemodynamics Report") | 1 | M | | Root node |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | M | | |
| 3 | > | | INCLUDE | DTID 3601 "Procedure Context" | 1 | M | | |
| 4 | > | HAS OBS CONTEXT | INCLUDE | DTID 3602 "Cardiovascular Patient Characteristics" | 1 | M | | |
| 5 | > | HAS ACQ CONTEXT | INCLUDE | DTID 3603 "Procedure Environmental Characteristics" | 1 | U | | |
| 6 | > | CONTAINS | INCLUDE | DTID 3501 "Hemodynamics Measurement Group" | 1-n | M | | |
| 7 | > | CONTAINS | INCLUDE | DTID 3570 "Summary, Hemodynamics" | 1 | U | | |

TID 3501 Hemodynamics Measurement Group

The Hemodynamic Measurement Group Template provides a structure for measurements acquired during a single procedure phase in a cardiac catheterization lab.

Type: Extensible
Order: Significant
Root: No

Table TID 3501. Hemodynamics Measurement Group

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|-----------|---|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS ACQ CONTEXT | CODE | EV (G-72BB, SRT, "Catheterization Procedure Phase") | 1 | M | | DCID 3651 "Hemodynamic Measurement Phase" |
| 3 | > | HAS ACQ CONTEXT | INCLUDE | DTID 3520 "Hemodynamic Clinical Context" | 1 | U | | |
| 4 | > | HAS ACQ CONTEXT | TEXT | EV (121124, DCM, "Procedure Action ID") | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 3510 "Vital Signs" | 1-n | U | | |
| 6 | > | CONTAINS | INCLUDE | DTID 3504 "Arterial Pressure Measurement" | 1-n | U | | |
| 7 | > | CONTAINS | INCLUDE | DTID 3505 "Atrial Pressure Measurement" | 1-n | U | | |
| 8 | > | CONTAINS | INCLUDE | DTID 3506 "Venous Pressure Measurement" | 1-n | U | | |
| 9 | > | CONTAINS | INCLUDE | DTID 3507 "Ventricular Pressure Measurement" | 1-n | U | | |
| 10 | > | CONTAINS | INCLUDE | DTID 3508 "Gradient Measurement" | 1-n | U | | |
| 11 | > | CONTAINS | INCLUDE | DTID 3509 "Blood Velocity Measurement" | 1-n | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|----------------------|
| 12 | > | CONTAINS | INCLUDE | DTID 3515 "Cardiac Output Measurement by Indicator Dilution" | 1-n | U | | |
| 13 | > | CONTAINS | INCLUDE | DTID 3516 "Blood Lab Measurements" | 1-n | U | | |
| 14 | > | CONTAINS | INCLUDE | DTID 3560 "Derived Hemodynamic Measurements" | 1-n | U | | |
| 15 | > | CONTAINS | INCLUDE | DTID 3714 "ECG Lead Measurements" | 1-n | U | | |

Content Item Descriptions

| | |
|-------|---|
| Row 4 | Procedure Action ID allows linkage between the hemodynamic measurements recorded in this Template and a procedure step or phase recorded in the Procedure Log, e.g., using TID 3100 "Procedure Action". |
|-------|---|

TID 3504 Arterial Pressure Measurement

The Arterial Pressure Measurement Template consists of a CONTAINER, with an acquisition context of the measurement anatomic site, and containing systolic, diastolic, and mean measurements. This implies that the name of the measurement is effectively post-coordinated from the measurement name, the Hemodynamic Measurement Group container (procedure phase) name, and the acquisition context (finding site) value.

Type: Extensible
Order: Significant
Root: No

Table TID 3504. Arterial Pressure Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (P2-36102, SRT, "Arterial pressure measurements") | 1 | M | | |
| 2 | > | | INCLUDE | DTID 3530 "Hemodynamic Acquisition Context" | 1 | M | | \$LocationName = EV (G-C0E3, SRT, "Finding Site") \$LocationValue = DCID 3606 "Arterial Source Locations" |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (8480-6, LN, "Intravascular arterial Systolic pressure") \$Units = DCID 3500 "Pressure Units" |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (8462-4, LN, "Intravascular arterial Diastolic pressure") \$Units = DCID 3500 "Pressure Units" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|-----------|---|
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (8478-0, LN, "Intravascular arterial mean pressure") \$Units = DCID 3500 "Pressure Units" |
| 6 | > | CONTAINS | INCLUDE | DTID 3550 "Pressure Waveform Measurements" | 1-n | U | | |

TID 3505 Atrial Pressure Measurement

The Atrial Pressure Measurement Template consists of a CONTAINER, with an acquisition context of the measurement anatomic site, and containing a-wave, v-wave, and mean measurements. This implies that the name of the measurement is effectively post-coordinated from the measurement name, the Hemodynamic Measurement Group container (procedure phase) name, and the acquisition context (finding site) value.

Type: Extensible
Order: Significant
Root: No

Table TID 3505. Atrial Pressure Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (122121, DCM, "Atrial pressure measurements") | 1 | M | | |
| 2 | > | | INCLUDE | DTID 3530 "Hemodynamic Acquisition Context" | 1 | M | | \$LocationName = EV (G-C0E3, SRT, "Finding Site") \$LocationValue = DCID 3608 "Atrial Source Locations" |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (109016, DCM, "A-wave peak pressure") \$Units = DCID 3500 "Pressure Units" |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (109034, DCM, "V-wave peak pressure") \$Units = DCID 3500 "Pressure Units" |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (F-31150, SRT, "Mean blood pressure") \$Units = DCID 3500 "Pressure Units" |
| 6 | > | CONTAINS | INCLUDE | DTID 3550 "Pressure Waveform Measurements" | 1-n | U | | |

TID 3506 Venous Pressure Measurement

The Venous Pressure Measurement Template consists of a CONTAINER, with an acquisition context of the measurement anatomic site, and containing a mean measurement. This implies that the name of the measurement is effectively post-coordinated from the

measurement name, the Hemodynamic Measurement Group container (procedure phase) name, and the acquisition context (finding site) value.

Type: Extensible
Order: Significant
Root: No

Table TID 3506. Venous Pressure Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (P2-36110, SRT, "Venous pressure measurements") | 1 | M | | |
| 2 | > | | INCLUDE | DTID 3530 "Hemodynamic Acquisition Context" | 1 | M | | \$LocationName = EV (G-C0E3, SRT, "Finding Site") \$LocationValue = DCID 3607 "Venous Source Locations" |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (F-31150, SRT, "Mean blood pressure") \$Units = DCID 3500 "Pressure Units" |
| 4 | > | CONTAINS | INCLUDE | DTID 3550 "Pressure Waveform Measurements" | 1-n | U | | |

TID 3507 Ventricular Pressure Measurement

The Ventricular Pressure Measurement Template consists of a CONTAINER, with an acquisition context of the measurement anatomic site, and containing systolic and end-diastolic measurements. This implies that the name of the measurement is effectively post-coordinated from the measurement name, the Hemodynamic Measurement Group container (procedure phase) name, and the acquisition context (finding site) value.

Type: Extensible
Order: Significant
Root: No

Table TID 3507. Ventricular Pressure Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|--|---|
| 1 | | | CONTAINER | EV (122122, DCM, "Ventricular pressure measurements") | 1 | M | | |
| 2 | > | | INCLUDE | DTID 3530 "Hemodynamic Acquisition Context" | 1 | M | | \$LocationName = EV (G-C0E3, SRT, "Finding Site") \$LocationValue = DCID 3609 "Ventricular Source Locations" |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | MC | IFF \$LocationValue selected in row 2 is (T-32600, SRT, "Left Ventricle") or subsite thereof | \$Measurement = EV (F-03E0D, SRT, "Left Ventricular Systolic blood pressure") \$Units = DCID 3500 "Pressure Units" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|---|--|
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | MC | IFF \$LocationValue selected in row 2 is (T-32600, SRT, "Left Ventricle") or subsite thereof | \$Measurement = EV (F-03E0E, SRT, "Left Ventricular End Diastolic pressure") \$Units = DCID 3500 "Pressure Units" |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | MC | IFF \$LocationValue selected in row 2 is (T-32500, SRT, "Right Ventricle") or subsite thereof | \$Measurement = EV (F-03DFE, SRT, "Right Ventricular Systolic blood pressure") \$Units = DCID 3500 "Pressure Units" |
| 6 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | MC | IFF \$LocationValue selected in row 2 is (T-32500, SRT, "Right Ventricle") or subsite thereof | \$Measurement = EV (F-03E02, SRT, "Right Ventricular End Diastolic pressure") \$Units = DCID 3500 "Pressure Units" |
| 7 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | MC | IFF \$LocationValue selected in row 2 is (T-32400, SRT, "Common Ventricle") | \$Measurement = EV (122194, DCM, "Ventricular Systolic blood pressure") \$Units = DCID 3500 "Pressure Units" |
| 8 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | MC | IFF \$LocationValue selected in row 2 is (T-32400, SRT, "Common Ventricle") | \$Measurement = EV (122191, DCM, "Ventricular End Diastolic pressure") \$Units = DCID 3500 "Pressure Units" |
| 9 | > | CONTAINS | INCLUDE | DTID 3550 "Pressure Waveform Measurements" | 1-n | U | | |

TID 3508 Gradient Measurement

The Gradient Measurement Template consists of a CONTAINER, with an acquisition context of the measurement anatomic site, and containing the gradient measurement. This implies that the name of the measurement is effectively post-coordinated from the measurement name, the Hemodynamic Measurement Group container (procedure phase) name, and the acquisition context (finding site) value.

Type: Extensible
Order: Significant
Root: No

Table TID 3508. Gradient Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (122123, DCM, "Gradient assessment") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|---|---|
| 2 | > | | INCLUDE | DTID 3530 "Hemodynamic Acquisition Context" | 1 | MC | XOR with Rows 3 & 4 IFF single location is appropriate | \$LocationName = EV (G-C0E3, SRT, "Finding Site") \$LocationValue = DCID 3610 "Gradient Source Locations" |
| 3 | > | | INCLUDE | DTID 3530 "Hemodynamic Acquisition Context" | 1 | MC | XOR with Row 2 IFF a dual location is appropriate | \$LocationName = EV (121116, DCM, "Proximal Finding Site") \$LocationValue = DCID 3630 "Cardiovascular Anatomic Locations" |
| 4 | > | | INCLUDE | DTID 3530 "Hemodynamic Acquisition Context" | 1 | MC | XOR with Row 2 IFF a dual location is appropriate | \$LocationName = EV (121117, DCM, "Distal Finding Site") \$LocationValue = DCID 3630 "Cardiovascular Anatomic Locations" |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$Measurement = EV (F-023F7, SRT, "Pressure Gradient") \$Units = DCID 3500 "Pressure Units" \$Derivation = DCID 3627 "Measurement Type" |
| 6 | > | CONTAINS | INCLUDE | DTID 3550 "Pressure Waveform Measurements" | 1-n | U | | |

Content Item Descriptions

| | |
|-------|---|
| Row 5 | Is used to encode the gradient measurements. Uses TID 300 "Measurement" for the Content Item structure of the measurements. That Template allows an INFERRED FROM relationship to other numeric measurements used in the computation or derivation of the current measurement. In the case of a gradient measurement, the pressure measurements at the distal and proximal locations may thus be explicitly conveyed. |
|-------|---|

TID 3509 Blood Velocity Measurement

The Blood Velocity Measurement Template consists of a CONTAINER, with an acquisition context of the measurement anatomic site, and containing primary (not derived) velocity measurements, e.g., from a Doppler catheter. Derived velocity measurements may be recorded using TID 3560 "Derived Hemodynamic Measurements".

Type: Extensible
Order: Significant
Root: No

Table TID 3509. Blood Velocity Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (122124, DCM, "Blood velocity measurements") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|--|
| 2 | > | | INCLUDE | DTID 3530 "Hemodynamic Acquisition Context" | 1 | M | | \$LocationName = EV (G-C0E9, SRT, "Procedure site") \$LocationValue = BCID 3606 "Arterial Source Locations" |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$Measurement = DCID 3612 "Blood Velocity Measurements" \$Units = EV (mm/s, UCUM, "mm/s") |
| 4 | > | CONTAINS | INCLUDE | DTID 3550 "Pressure Waveform Measurements" | 1-n | U | | |

TID 3510 Vital Signs

The Vital Signs Template consists of a CONTAINER containing the various vital signs measurements. These measurements may be acquired automatically from patient monitoring equipment, or may be entered based on manual measurements.

Type: Extensible
Order: Significant
Root: No

Table TID 3510. Vital Signs

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------|----|----------|-----------|---|
| 1 | | | CONTAINER | EV (8716-3, LN, "Vital Signs") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-008EC, SRT, "Systolic blood pressure") \$Units = DCID 3500 "Pressure Units" \$Method = BCID 3560 "Blood Pressure Methods" |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-008ED, SRT, "Diastolic blood pressure") \$Units = DCID 3500 "Pressure Units" |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (8867-4, LN, "Heart rate") \$Units = EV ({H.B.}/min, UCUM, "BPM") |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (8310-5, LN, "Body temperature") \$Units = EV (Cel, UCUM, "C") |
| 6 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = DCID 3526 "Blood Gas Saturation" \$Units = EV (% , UCUM, "%") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---------------------------------------|----|----------|-----------|---|
| 7 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-21000, SRT, "Respiration rate") \$Units = EV (/min, UCUM, "breaths/min") |
| 8 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122195, DCM, "Pulse Strength") \$Units = DT ({0:4}, UCUM, "range 0:4") |
| 9 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-009EA, SRT, "Pain Score") \$Units = DT ({1:10}, UCUM, "range 1:10") |
| 10 | > | CONTAINS | CODE | DT (8884-9, LN, "Cardiac Rhythm") | 1 | U | | BCID 3415 "Cardiac Rhythms" |
| 11 | > | CONTAINS | CODE | DT (9304-7, LN, "Respiration Rhythm") | 1 | U | | BCID 3416 "Respiration Rhythms" |

TID 3515 Cardiac Output Measurement by Indicator Dilution

The Cardiac Output Measurement by Indicator Dilution Template consists of a CONTAINER containing the measurement and significant parameters of the technical method. If the measurement is based on a DICOM Hemodynamic Waveform SOP Instance, that object may also be referenced.

Note

Fick Cardiac Output is encoded in TID 3560 "Derived Hemodynamic Measurements".

Type: Extensible
Order: Significant
Root: No

Table TID 3515. Cardiac Output Measurement By Indicator Dilution

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|---|
| 1 | | | CONTAINER | EV (P2-34201, SRT, "Cardiac Output measurement") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (8737-9, LN, "Cardiac Output by Indicator Dilution") \$Units = EV (l/min, UCUM, "l/min") \$Method = DCID 3628 "Cardiac Output Methods" \$WavePurpose = DT (121112, DCM, "Source of Measurement") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----|---|----|----------|--------------------------------------|---|
| 3 | > | HAS ACQ CONTEXT | NUM | EV (122319, DCM, "Catheter Size") | 1 | MC | IFF Row 2 indicates a thermal method | UNITS = DCID 3510 "Catheter Size Units" |
| 4 | > | HAS ACQ CONTEXT | NUM | EV (122320, DCM, "Injectate Temperature") | 1 | MC | IFF Row 2 indicates a thermal method | UNITS = EV (Cel, UCUM, "C") |
| 5 | > | HAS ACQ CONTEXT | NUM | EV (122321, DCM, "Injectate Volume") | 1 | M | | UNITS = DT (ml, UCUM, "ml") |
| 6 | > | HAS ACQ CONTEXT | NUM | EV (122322, DCM, "Calibration Factor") | 1 | M | | UNITS = DT (1, UCUM, "no units") |

TID 3516 Blood Lab Measurements

The Blood Lab Measurements Template provides for the recording of measurements made on blood samples obtained during a catheterization procedure. The type and anatomic source of the blood is recorded as acquisition context. The results from the blood chemistry measurement system are quoted; the measurement names may be pre-coordinated with the type or source of the blood, or generic measurement names may be reported. In the latter case, the full measurement concept name may be effectively post-coordinated using the recorded acquisition context.

Type: Extensible
Order: Significant
Root: No

Table TID 3516. Blood Lab Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|---|
| 1 | | | CONTAINER | EV (122125, DCM, "Blood lab measurements") | 1 | M | | |
| 2 | > | HAS ACQ CONTEXT | CODE | EV (R-00254, SRT, "Specimen Type") | 1 | M | | DCID 3520 "Blood Source Type" |
| 3 | > | HAS ACQ CONTEXT | CODE | EV (G-C0E9, SRT, "Procedure site") | 1 | M | | BCID 3630 "Cardiovascular Anatomic Locations" |
| 4 | > | | INCLUDE | DTID 1000 "Quotation" | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (718-7, LN, "Hemoglobin") \$Units = DT (g/dl, UCUM, "g/dl") |
| 6 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3524 "Blood Gas Pressures" \$Units = DCID 3500 "Pressure Units" |
| 7 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3525 "Blood Gas Content" \$Units = DT (ml/dl, UCUM, "ml/dl") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---------------------------|-----|----------|-----------|---|
| 8 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3528 "Blood pH" \$Units = EV ([pH], UCUM, "pH") |
| 9 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3526 "Blood Gas Saturation" \$Units = EV (% , UCUM, "%") |
| 10 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3527 "Blood Base Excess" \$Units = DT (meq/dl, UCUM, "meq/dl") |
| 11 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122183, DCM, "Blood temperature") \$Units = EV (Cel, UCUM, "C") |

TID 3520 Hemodynamic Clinical Context

The Clinical Context Template allows the recording of information about the patient's clinical state that may affect interpretation of the hemodynamic measurements. This Template includes several coded conditions (e.g., complications, drugs, physiological challenges, etc.), each of which may have a Concept Modifier of "Relative Time". This Modifier indicates the temporal relationship of the hemodynamic measurements to the conditions recorded in this Template. E.g., the Content Item structure:

[CONTAINER] "Findings"

>HAS ACQ CONTEXT "Cath Procedure Phase" "Post-intervention phase"

>HAS ACQ CONTEXT [CONTAINER] "Clinical Context"

>>CONTAINS [CODE] "Complication" "Arrhythmia"

>>>HAS CONCEPT MOD [CODE] "Relative Time" "After"

>CONTAINS [CONTAINER] "Arterial Measurements"...

conveys the semantics that this group of measurements for the post-intervention phase of a cath procedure was made after an occurrence of arrhythmia in the patient.

In the absence of a Relative Time modifier, the acquisition context is during the identified event or state.

Type: Extensible
Order: Significant
Root: No

Table TID 3520. Hemodynamic Clinical Context

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|-----|----------|-----------|---------------------------------------|
| 1 | | | CONTAINER | EV (122127, DCM, "Clinical Context") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (109054, DCM, "Patient State") | 1-n | U | | BCID 3602 "Hemodynamic Patient State" |
| 3 | > | CONTAINS | TEXT | EV (109054, DCM, "Patient State") | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---------------------------|-----|----------|-----------|---|
| 4 | > | CONTAINS | INCLUDE | DTID 3521 "Relative Time" | 1-n | U | | \$ConditionName = EV (DD-60002, SRT, "Complication of Procedure") \$ConditionValue = DCID 3413 "Adverse Outcomes" |
| 5 | > | CONTAINS | INCLUDE | DTID 3521 "Relative Time" | 1-n | U | | \$ConditionName = EV (122086, DCM, "Contrast administered") \$ConditionValue = BCID 12 "Radiographic Contrast Agent" |
| 6 | > | CONTAINS | INCLUDE | DTID 3521 "Relative Time" | 1-n | U | | \$ConditionName = EV (122083, DCM, "Drug administered") \$ConditionValue = BCID 10 "Interventional Drug" |
| 7 | > | CONTAINS | INCLUDE | DTID 3521 "Relative Time" | 1-n | U | | \$ConditionName = EV (109059, DCM, "Physiological challenges") \$ConditionValue = BCID 3271 "Hemodynamic Physiological Challenges" |
| 8 | > | CONTAINS | INCLUDE | DTID 3521 "Relative Time" | 1-n | U | | \$ConditionName = EV (122138, DCM, "Circulatory Support") \$ConditionValue = DCID 3553 "Circulatory Support" |
| 9 | > | CONTAINS | INCLUDE | DTID 3521 "Relative Time" | 1-n | U | | \$ConditionName = EV (P2-2290D, SRT, "Controlled ventilation") \$ConditionValue = DCID 3554 "Ventilation" |
| 10 | > | CONTAINS | INCLUDE | DTID 3521 "Relative Time" | 1-n | U | | \$ConditionName = EV (P2-35000, SRT, "Cardiac Pacing") \$ConditionValue = BCID 3555 "Pacing" |
| 11 | > | CONTAINS | INCLUDE | DTID 3521 "Relative Time" | 1-n | U | | \$ConditionName = EV (P0-00000, SRT, "Procedure") \$ConditionValue = BCID 3405 "Procedure Action Values" |

TID 3521 Relative Time

The Relative Time Template is invoked by 3520 Hemodynamic Acquisition Context Template. It specifies an applicable clinical context condition and the time of the current measurements relative to that condition.

Table TID 3521. Parameters

| Parameter Name | Parameter Usage |
|------------------|--|
| \$ConditionName | Coded term for Concept Name of condition |
| \$ConditionValue | Context Group for condition values |

Type: **Non-Extensible**

Order: Significant
Root: No

Table TID 3521. Relative Time

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|-----------------------------------|----|----------|-----------|----------------------------|
| 1 | | | CODE | \$ConditionName | 1 | M | | \$ConditionValue |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-D709, SRT, "Relative time") | 1 | U | | BCID 3600 "Relative Times" |

TID 3530 Hemodynamic Acquisition Context

The Hemodynamic Acquisition Context Template is invoked by the various hemodynamic measurement Templates.

Table TID 3530. Parameters

| Parameter Name | Parameter Usage |
|-----------------|---|
| \$LocationName | Coded term for Concept Name of measurement location |
| \$LocationValue | Context Group for appropriate anatomic locations |

Type: Extensible
Order: Significant
Root: No

Table TID 3530. Hemodynamic Acquisition Context

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|----------|--|----|----------|-----------|--|
| 1 | | HAS CONCEPT MOD | CODE | \$LocationName | 1 | M | | \$LocationValue |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-A1F8, SRT, "Topographical modifier") | 1 | U | | BCID 3019 "Cardiovascular Anatomic Location Modifiers" |
| 3 | | HAS ACQ CONTEXT | CODE | EV (G-C036, SRT, "Measurement Method ") | 1 | U | | BCID 3241 "Hemodynamic Measurement Techniques" |
| 4 | | HAS ACQ CONTEXT | WAVEFORM | DT (121112, DCM, "Source of Measurement") | 1 | UC | XOR Row 5 | |
| 5 | | HAS ACQ CONTEXT | TCOORD | DT (121112, DCM, "Source of Measurement") | 1 | UC | XOR Row 4 | |
| 6 | > | SELECTED FROM | WAVEFORM | | 1 | M | | |

TID 3550 Pressure Waveform Measurements

The Pressure Waveform Measurements Template is invoked by the various hemodynamic measurement Templates for recording general measurements made in conjunction with the specific required measurements for that anatomic location.

Type: Extensible
Order: Significant
Root: No

Table TID 3550. Pressure Waveform Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---------------------------|-----|----------|-----------|--|
| 1 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3611 "Pressure Measurements" \$Units = DCID 3500 "Pressure Units" |
| 2 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3612 "Blood Velocity Measurements" \$Units = EV (mm/s, UCUM, "mm/s") |
| 3 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3613 "Hemodynamic Time Measurements" \$Units = DT (ms, UCUM, "ms") |
| 4 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32100, SRT, "Cardiac Output") \$Units = EV (l/min, UCUM, "l/min") |
| 5 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32120, SRT, "Stroke Volume") \$Units = DT (ml, UCUM, "ml") |
| 6 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (10230-1, LN, "LV Ejection Fraction") \$Units = EV (% , UCUM, "%") |
| 7 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (8867-4, LN, "Heart rate") \$Units = DT ({H.B.}/min, UCUM, "BPM") |
| 8 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-21000, SRT, "Respiration rate") \$Units = DT (/min, UCUM, "breaths/min") |
| 9 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (109025, DCM, "Max dp/dt") \$Units = DT (mm[Hg]/s, UCUM, "mmHg/s") |
| 10 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (109026, DCM, "Max neg dp/dt") \$Units = DT (mm[Hg]/s, UCUM, "mmHg/s") |
| 11 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122190, DCM, "Max dp/dt/P") \$Units = DT (/s, UCUM, "/s") |
| 12 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122192, DCM, "Indicator appearance time") \$Units = DT (s, UCUM, "s") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---------------------------|-----|----------|-----------|---|
| 13 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122193, DCM, "Maximum pressure acceleration") \$Units = DT (mm[Hg]/s2, UCUM, "mmHg/s/s") |
| 14 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3617 "Valve Flows" \$Units = DT (ml/min, UCUM, "ml/min") |

TID 3560 Derived Hemodynamic Measurements

The Derived Hemodynamic Measurements Template consists of a CONTAINER containing measurements derived from one or more other measurements. These measurements are associated with a particular procedure phase, but not necessarily with a particular anatomic location.

Type: Extensible
Order: Significant
Root: No

Table TID 3560. Derived Hemodynamic Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (122126, DCM, "Derived Hemodynamic Measurements") | 1 | U | | |
| 2 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3614 "Valve Areas, Non-mitral" \$Units = EV (cm2, UCUM, "cm2") \$Equation = DT (122262, DCM, "Area = Flow / 44.5 * sqrt(Gradient[mmHg]) ") |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-02320, SRT, "Mitral Valve Area") \$Units = EV (cm2, UCUM, "cm2") \$Equation = DT (122263, DCM, "MVA = Flow / 38.0 * sqrt(Gradient[mmHg]) ") |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3615 "Valve Areas" \$ModType = EV (121425, DCM, "Index") \$ModValue = EV (8277-6, LN, "Body Surface Area") \$Units = DT (cm2/m2, UCUM, "cm2/m2") |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3616 "Hemodynamic Period Measurements" \$Units = DT (s/min, UCUM, "s/min") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---------------------------|-----|----------|-----------|---|
| 6 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3617 "Valve Flows" \$Units = DT (ml/s, UCUM, "ml/s") |
| 7 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32110, SRT, "Cardiac Index") \$Units = DT (l/min/m2, UCUM, "l/min/m2") |
| 8 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3529 "Arterial / Venous Content" \$Units = DT (ml/dl, UCUM, "ml/dl") |
| 9 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3618 "Hemodynamic Flows" \$Units = DT (l/min, UCUM, "l/min") |
| 10 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (8736-1, LN, "FICK Cardiac Output") \$Units = DT (l/min, UCUM, "l/min") |
| 11 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (8750-2, LN, "FICK Cardiac Index") \$Units = DT (l/min/m2, UCUM, "l/min/m2") |
| 12 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122229, DCM, "Arteriovenous difference") \$Units = DT (ml/dl, UCUM, "ml/dl") |
| 13 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = BCID 3620 "Hemodynamic Ratios" \$Units = DT ({ratio}, UCUM, "ratio") |
| 14 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122237, DCM, "Corrected Sinus Node Recovery Time") \$Units = DT (ms, UCUM, "ms") |
| 15 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (8861-7, LN, "Left Ventricular Stroke Work") \$Units = DT (gf.m, UCUM, "gf.m") |
| 16 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (8862-5, LN, "Right Ventricular Stroke Work") \$Units = DT (gf.m, UCUM, "gf.m") |
| 17 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (8863-3, LN, "Left Ventricular Stroke Work Index") \$Units = DT (gf.m/m2, UCUM, "gf.m/m2") |
| 18 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (8864-1, LN, "Right Ventricular Stroke Work Index") \$Units = DT (gf.m/m2, UCUM, "gf.m/m2") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---------------------------|-----|----------|-----------|---|
| 19 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122238, DCM, "Max volume normalized to 50mmHg pulse pressure") \$Units = DT (ml, UCUM, "ml") |
| 20 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122239, DCM, "Oxygen Consumption") \$Units = DT (ml/min, UCUM, "ml/min") \$Equation = BCID 3664 "Oxygen Consumption Equations and Tables" |
| 21 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (19217-9, LN, "Oxygen partial pressure at 50% saturation (P50) ") \$Units = DCID 3500 "Pressure Units" \$Equation = BCID 3666 "P50 Equations" |
| 22 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (11556-8, LN, "Blood Oxygen partial pressure") \$Units = DCID 3500 "Pressure Units" |
| 23 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3618 "Hemodynamic Flows" \$ModType = EV (121425, DCM, "Index") \$ModValue = EV (8277-6, LN, "Body Surface Area") \$Units = DT (l/min/m2, UCUM, "l/min/m2") |
| 24 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3619 "Hemodynamic Resistance Measurements" \$Units = BDCID 3502 "Hemodynamic Resistance Units" |
| 25 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3619 "Hemodynamic Resistance Measurements" \$ModType = EV (121425, DCM, "Index") \$ModValue = EV (8277-6, LN, "Body Surface Area") \$Units = BDCID 3503 "Indexed Hemodynamic Resistance Units" |
| 26 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122227, DCM, "Left to Right Flow") \$Units = DT (l/min, UCUM, "l/min") |
| 27 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122228, DCM, "Right to Left Flow") \$Units = DT (l/min, UCUM, "l/min") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---------------------------|-----|----------|-----------|---|
| 28 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32120, SRT, "Stroke Volume") \$Units = DT (ml, UCUM, "ml") |
| 29 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32120, SRT, "Stroke Volume") \$ModType = EV (121425, DCM, "Index") \$ModValue = EV (8277-6, LN, "Body Surface Area") \$Units = DT (ml/m2, UCUM, "ml/m2") |
| 30 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-042BA, SRT, "Total blood volume") \$Units = DT (l, UCUM, "l") |
| 31 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3667 "Framingham Scores" \$Units = DT (% , UCUM, "%") \$Equation = DCID 3668 "Framingham Tables" |

TID 3570 Summary, Hemodynamics

This Template allows the recording of any significant numeric measurements or findings.

Type: Extensible
Order: Significant
Root: No

Table TID 3570. Summary, Hemodynamics

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|-----------------------------------|
| 1 | | CONTAINS | CONTAINER | EV (121111, DCM, "Summary") | 1 | M | | |
| 2 | > | CONTAINS | TEXT | EV (121111, DCM, "Summary") | 1 | U | | |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | |
| 4 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3640 "Hypertension" |
| 5 | >> | | INCLUDE | DTID 1350 "Negation Modifier, Presence of Finding" | 1 | U | | |
| 6 | >> | HAS PROPERTIES | CODE | EV (G-C197, SRT, "Severity") | 1 | U | | DCID 3716 "Severity" |
| 7 | > | CONTAINS | CODE | DCID 3641 "Hemodynamic Assessments" | 1-n | U | | DCID 3642 "Degree Findings" |
| 8 | >> | HAS PROPERTIES | CODE | EV (G-C0B2, SRT, "Condition") | 1 | U | | EV (R-102B9, SRT, "Large v-wave") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|-----------------------------|----|----------|-----------|--|
| 9 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1 | U | | EV (R-102BA, SRT, "Diastolic pressure equalization") |

TID 3601 Procedure Context

The Procedure Context Template describes acquisition context for measurements made or events recorded in a procedure.

Type: Extensible
Order: Significant
Root: No

Table TID 3601. Procedure Context

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|-----|----------|-----------|---|
| 1 | | HAS ACQ CONTEXT | TEXT | EV (121065, DCM, "Procedure Description") | 1 | U | | Defaults to Study Description (0008,1030) of the General Study Module |
| 2 | | HAS ACQ CONTEXT | CODE | EV (G-C0E8, SRT, "Has Intent") | 1 | U | | BCID 3629 "Procedure Intent" |
| 3 | | HAS ACQ CONTEXT | CODE | EV (G-C09C, SRT, "Procedure Priority") | 1 | U | | BCID 3414 "Procedure Urgency" |
| 4 | | HAS OBS CONTEXT | CODE | EV (121023, DCM, "Procedure Code") | 1-n | U | | Defaults to Procedure Code Sequence (0008,1032) of General Study Module |

TID 3602 Cardiovascular Patient Characteristics

This Template describes the characteristics of the patient that are specific to the current clinical presentation (visit). Patient Characteristic concepts in this Template, which may replicate attributes in the Patient Study Module, are included here as possible targets of by-reference relationships from other Content Items in the SR tree.

Note

Several of the concepts in this Template duplicate concepts in TID 1007 "Subject Context, Patient". The difference in use is that this Template has those concepts as primary observations of the patient, while in TID 1007 "Subject Context, Patient" the concepts are used to set (or reset) the context for other observations.

Type: Extensible
Order: Significant
Root: No

Table TID 3602. Cardiovascular Patient Characteristics

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (121118, DCM, "Patient Characteristics") | 1 | M | | |
| 2 | > | CONTAINS | NUM | EV (121033, DCM, "Subject Age") | 1 | M | | UNITS = DCID 7456 "Units of Measure for Age" |
| 3 | > | CONTAINS | CODE | EV (121032, DCM, "Subject Sex") | 1 | M | | DCID 7455 "Sex" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|-----|----------|--|--|
| 4 | > | CONTAINS | NUM | EV (8302-2, LN, "Patient Height") | 1 | M | | UNITS = EV (cm, UCUM, "cm") |
| 5 | > | CONTAINS | NUM | EV (29463-7, LN, "Patient Weight") | 1 | M | | UNITS = EV (kg, UCUM, "kg") |
| 6 | > | CONTAINS | NUM | EV (122221, DCM, "Thorax diameter, sagittal") | 1 | U | | UNITS = EV (cm, UCUM, "cm") |
| 7 | > | CONTAINS | NUM | EV (8277-6, LN, "Body Surface Area") | 1 | MC | IF BSA used for indexed measurements in SOP Instance | UNITS = EV (m2, UCUM, "m2") |
| 8 | >> | INFERRED FROM | CODE | EV (8278-4, LN, "Body Surface Area Formula") | 1 | U | | BCID 3663 "Body Surface Area Equations" |
| 9 | > | CONTAINS | NUM | EV (F-01860, SRT, "Body Mass Index") | 1 | U | | UNITS = EV (kg/m2, UCUM, "kg/m2") |
| 10 | >> | INFERRED FROM | CODE | EV (121420, DCM, "Equation") | 1 | U | | DT (122265, DCM, "BMI = Wt/Ht^2") |
| 11 | > | CONTAINS | NUM | EV (8867-4, LN, "Heart Rate") | 1 | U | | UNITS = EV ({H.B.}/min, UCUM, "BPM") |
| 12 | > | CONTAINS | NUM | EV (F-008EC, SRT, "Systolic Blood Pressure") | 1 | U | | UNITS = DCID 3500 "Pressure Units" |
| 13 | > | CONTAINS | NUM | EV (F-008ED, SRT, "Diastolic Blood Pressure") | 1 | U | | UNITS = DCID 3500 "Pressure Units" |
| 14 | > | CONTAINS | CODE | DT (8884-9, LN, "Cardiac Rhythm") | 1 | U | | BCID 3415 "Cardiac Rhythms" |
| 15 | > | CONTAINS | NUM | EV (F-03D8C, SRT, "Chest Circumference") | 1 | U | | UNITS = EV (cm, UCUM, "cm") |
| 16 | > | CONTAINS | TEXT | EV (F-009E4, SRT, "Breast size") | 1 | U | | Bra size as text string |
| 17 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1 | U | | DCID 3202 "Chest Pain" |
| 18 | > | CONTAINS | CODE | EV (F-04FCC, SRT, "Functional capacity") | 1 | U | | DCID 3719 "Canadian Clinical Classification" |
| 19 | > | CONTAINS | CODE | EV (F-04FCC, SRT, "Functional capacity") | 1 | U | | DCID 3736 "NYHA Classification" |
| 20 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | |
| 21 | > | CONTAINS | TEXT | EV (121110, DCM, "Patient Presentation") | 1 | U | | |

Content Item Descriptions

| | |
|------------|---|
| Rows 11-13 | Cardiac vital signs, for use when the SR SOP Instance does not record vital signs at multiple procedure phases or stages. |
| Row 16 | Breast size for interpretation of attenuation in nuclear medicine imaging |

TID 3603 Procedure Environmental Characteristics

Type: Extensible
Order: Significant

Root: No

Table TID 3603. Procedure Environmental Characteristics

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|-------------------------------------|
| 1 | | | CONTAINER | EV (122222, DCM, "Procedure Environmental Characteristics") | 1 | M | | |
| 2 | > | CONTAINS | NUM | EV (122223, DCM, "Room oxygen concentration") | 1 | U | | UNITS = EV (% , UCUM, "%") |
| 3 | > | CONTAINS | NUM | EV (122224, DCM, "Room temperature") | 1 | U | | UNITS = EV (Cel, UCUM, "C") |
| 4 | > | CONTAINS | NUM | EV (122225, DCM, "Room Barometric pressure") | 1 | U | | UNITS = DT (mbar, UCUM, "millibar") |

ECG Report Templates

TID 3700 ECG Report

The ECG Report Template is the root structure for the representation of analysis of an ECG waveform, potentially in comparison to a prior ECG waveform analysis. The analyzed waveform may or may not be stored as a DICOM SOP Instance.

Type: Extensible
Order: Significant
Root: Yes

Table TID 3700. ECG Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|---------------------------------|
| 1 | | | CONTAINER | EV (28010-7, LN, "ECG Report") | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | U | | DCID 3670 "ECG Procedure Types" |
| 3 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 4 | > | CONTAINS | INCLUDE | DTID 1002 "Observer Context" | 1-n | M | | |
| 5 | > | CONTAINS | CONTAINER | EV (18785-6, LN, "Indications for Procedure") | 1 | U | | |
| 6 | >> | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3671 "Reason for ECG Exam" |
| 7 | >> | CONTAINS | TEXT | EV (121071, DCM, "Finding") | 1 | U | | |
| 8 | > | CONTAINS | INCLUDE | DTID 3802 "Cardiovascular Patient History" | 1 | U | | |
| 9 | > | CONTAINS | INCLUDE | DTID 3704 "Patient Characteristics for ECG" | 1 | U | | |
| 10 | > | CONTAINS | INCLUDE | DTID 3702 "Prior ECG Exam" | 1 | U | | |
| 11 | > | CONTAINS | INCLUDE | DTID 3708 "ECG Waveform Information" | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|-----------|-------------------------------------|
| 12 | > | CONTAINS | CONTAINER | EV (122144, DCM, "Quantitative Analysis") | 1 | M | | |
| 13 | >> | CONTAINS | INCLUDE | DTID 3713 "ECG Global Measurements" | 1 | U | | |
| 14 | >> | CONTAINS | INCLUDE | DTID 3714 "ECG Lead Measurements" | 1-n | U | | One instantiation per reported lead |
| 15 | > | CONTAINS | INCLUDE | DTID 3717 "ECG Qualitative Analysis" | 1 | U | | |
| 16 | > | CONTAINS | INCLUDE | DTID 3719 "Summary, ECG" | 1 | U | | |

TID 3701 Clinical Context, ECG (Retired)

This Template has been retired (see PS3.16-2009).

TID 3702 Prior ECG Exam

Type: Extensible
Order: Significant
Root: No

Table TID 3702. Prior ECG Exam

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | CONTAINS | CONTAINER | EV (55114-3, LN, "Prior Procedure Descriptions") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (122140, DCM, "Comparison with Prior Exam Done") | 1 | M | | DCID 230 "Yes-No" |
| 3 | > | CONTAINS | DATETIME | EV (122146, DCM, "Procedure DateTime") | 1 | U | | |
| 4 | > | CONTAINS | UIDREF | EV (121018, DCM, "Procedure Study Instance UID") | 1 | U | | |
| 5 | > | CONTAINS | COMPOSITE | EV (122075, DCM, "Prior report for current patient") | 1 | U | | |
| 6 | > | CONTAINS | WAVEFORM | EV (121112, DCM, "Source of Measurement") | 1 | U | | |

TID 3704 Patient Characteristics for ECG

Type: Extensible
Order: Significant
Root: No

Table TID 3704. Patient Characteristics for ECG

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (121118, DCM, "Patient Characteristics") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|----|----------|-----------|--|
| 2 | > | CONTAINS | NUM | EV (121033, DCM, "Subject Age") | 1 | M | | UNITS = DCID 7456 "Units of Measure for Age" |
| 3 | > | CONTAINS | CODE | EV (121032, DCM, "Subject Sex") | 1 | M | | DCID 7455 "Sex" |
| 4 | > | CONTAINS | NUM | EV (8302-2, LN, "Patient Height") | 1 | U | | UNITS = EV (cm, UCUM, "cm") |
| 5 | > | CONTAINS | NUM | EV (29463-7, LN, "Patient Weight") | 1 | U | | UNITS = EV (kg, UCUM, "kg") |
| 6 | > | CONTAINS | NUM | EV (F-008EC, SRT, "Systolic Blood Pressure") | 1 | U | | UNITS = DCID 3500 "Pressure Units" |
| 7 | > | CONTAINS | NUM | EV (F-008ED, SRT, "Diastolic Blood Pressure") | 1 | U | | UNITS = DCID 3500 "Pressure Units" |
| 8 | > | CONTAINS | CODE | EV (109054, DCM, "Patient State") | 1 | U | | DCID 3262 "ECG Patient State Values" |
| 9 | > | CONTAINS | CODE | EV (R-00728, SRT, "Pacemaker in situ") | 1 | U | | DCID 3672 "Pacemakers" |
| 10 | > | CONTAINS | CODE | EV (R-0077C, SRT, "ICD in situ") | 1 | U | | DCID 3692 "ICDs" |

TID 3708 ECG Waveform Information

The ECG Waveform Information Template provides reference to, and important parameters of, the analyzed waveform.

Type: Extensible
Order: Significant
Root: No

Table TID 3708. ECG Waveform Information

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (55111-9, LN, "Current Procedure Descriptions") | 1 | M | | |
| 2 | > | CONTAINS | WAVEFORM | EV (121112, DCM, "Source of Measurement") | 1 | U | | |
| 3 | > | CONTAINS | CODE | EV (10:11345, MDC, "Lead System") | 1 | U | | DCID 3263 "Electrode Placement Values" |
| 4 | > | CONTAINS | TEXT | EV (122142, DCM, "Acquisition Device Type") | 1 | U | | |
| 5 | > | CONTAINS | TEXT | EV (121122, DCM, "Equipment Identification") | 1 | U | | |
| 6 | > | CONTAINS | INCLUDE | DTID 1003 "Person Observer Identifying Attributes" | 1 | U | | Person performing the ECG acquisition |
| 7 | > | CONTAINS | TEXT | EV (121121, DCM, "Room Identification") | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|----------|---|-----|----------|-----------|----------------------|
| 8 | > | CONTAINS | DATETIME | EV (122146, DCM, "Procedure DateTime") | 1 | M | | |
| 9 | > | CONTAINS | NUM | DCID 3690 "ECG Control Variables Numeric" | 1-n | U | | |
| 10 | > | CONTAINS | TEXT | DCID 3691 "ECG Control Variables Text" | 1-n | U | | |
| 11 | > | CONTAINS | INCLUDE | DTID 4019 "CAD Algorithm Identification" | 1 | U | | |

TID 3713 ECG Global Measurements

The ECG Global Measurements Template provides a structure for measurements calculated across the ECG waveform as a whole (multiple leads).

As an Extensible Template, applications may include any ECG global measurements, such as angles of the electrical vector of various ECG waves. The recommended vocabulary for such concepts is ISO/IEEE 11073-10102.

Type: Extensible
Order: Significant
Root: No

Table TID 3713. ECG Global Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|-----------|--------------------------------------|
| 1 | | | CONTAINER | EV (122158, DCM, "ECG Global Measurements") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 3715 "ECG Measurement Source" | 1 | U | | |
| 3 | > | CONTAINS | NUM | DT (2:16020, MDC, "Atrial Heart Rate") | 1 | U | | UNITS = EV ({H.B.}/min, UCUM, "BPM") |
| 4 | > | CONTAINS | NUM | DT (2:16016, MDC, "Ventricular Heart Rate") | 1 | M | | UNITS = EV ({H.B.}/min, UCUM, "BPM") |
| 5 | > | CONTAINS | NUM | DT (2:16160, MDC, "QT interval global") | 1 | M | | UNITS = EV (ms, UCUM, "ms") |
| 6 | > | CONTAINS | NUM | DT (2:15876, MDC, "QTc interval global") | 1 | U | | UNITS = EV (ms, UCUM, "ms") |
| 7 | >> | HAS PROPERTIES | CODE | DT (111001, DCM, "Algorithm Name") | 1 | U | | DCID 3678 "QT Correction Algorithms" |
| 8 | > | CONTAINS | NUM | DT (2:15872, MDC, "PR interval global") | 1 | M | | UNITS = EV (ms, UCUM, "ms") |
| 9 | > | CONTAINS | NUM | DT (2:16156, MDC, "QRS duration global") | 1 | M | | UNITS = EV (ms, UCUM, "ms") |
| 10 | > | CONTAINS | NUM | DT (2:16168, MDC, "RR interval global") | 1 | M | | UNITS = EV (ms, UCUM, "ms") |
| 11 | > | CONTAINS | NUM | DCID 3689 "ECG Global Waveform Durations" | 1-n | U | | UNITS = EV (ms, UCUM, "ms") |
| 12 | > | CONTAINS | NUM | DCID 3229 "ECG Axis Measurements" | 1-n | U | | UNITS = EV (deg, UCUM, "deg") |
| 13 | > | CONTAINS | NUM | DT (2:16032, MDC, "Count of all beats") | 1 | U | | UNITS = EV ({beats}, UCUM, "beats") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|-----|----------|-----------|-------------------------------------|
| 14 | > | CONTAINS | NUM | DT (122707, DCM, "Number of Ectopic Beats") | 1 | U | | UNITS = EV ({beats}, UCUM, "beats") |
| 15 | >> | HAS PROPERTIES | CODE | EV (G-C504, SRT, "Associated Morphology") | 1-n | U | | BCID 3234 "Ectopic Beat Morphology" |

TID 3714 ECG Lead Measurements

The ECG Lead Measurements Template provides a structure for measurements calculated on individual ECG leads.

As an Extensible Template, applications may include any ECG per lead measurements, such as integrals over time of various ECG wave voltages. The recommended vocabulary for such concepts is ISO/IEEE 11073-10102.

Type: Extensible
Order: Significant
Root: No

Table TID 3714. ECG Lead Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|---|
| 1 | | | CONTAINER | EV (122159, DCM, "ECG Lead Measurements") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (122148, DCM, "Lead ID") | 1 | M | | BCID 3001 "ECG Leads" |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 3715 "ECG Measurement Source" | 1 | U | | |
| 4 | > | CONTAINS | NUM | DCID 3687 "Electrophysiology Waveform Durations" | 1-n | U | | UNITS = EV (ms, UCUM, "ms") |
| 5 | > | CONTAINS | NUM | DCID 3688 "Electrophysiology Waveform Voltages" | 1-n | U | | UNITS = EV (mV, UCUM, "mV") |
| 6 | > | CONTAINS | CODE | EV (F-38035, SRT, "ST Segment Finding") | 1 | U | | DCID 3233 "ST Segment Morphology" |
| 7 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3680 "ECG Lead Noise Descriptions" |

TID 3715 ECG Measurement Source

The ECG Measurement Source Template provides a structure for identifying the particular cardiac cycle, or beat, in an analyzed ECG waveform used for the measurement group for which this Template provides Observation Context. The cardiac cycle is identified by beat number, and optionally by specific temporal coordinates within a DICOM ECG Waveform SOP Instance.

Type: Extensible
Order: Significant
Root: No

Table TID 3715. ECG Measurement Source

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|----|----------|-----------|--|
| 1 | | | TEXT | EV (122149, DCM, "Beat Number") | 1 | U | | Up to three numeric characters |
| 2 | | | CODE | EV (G-C036, SRT, "Measurement Method") | 1 | U | | DCID 3676 "Lead Measurement Technique" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|----------|---|----|----------|-----------|----------------------|
| 3 | | | TCOORD | EV (121112, DCM, "Source of Measurement") | 1 | U | | |
| 4 | > | SELECTED FROM | WAVEFORM | | 1 | U | | |

Content Item Descriptions

| | |
|--------------|--|
| Row 1 | Beat Number is specified as a numeric text string, and shall be treated as the ordinal of the beat (cardiac cycle) within the waveform acquisition for this lead that was analyzed for the measurements in this container (i.e., "1" for the first beat, "2" for the second, etc.). If absent, the measurements may have been made by a technique across multiple cycles as specified in Row 2 Measurement Method. |
| Rows 3 and 4 | Source of measurement identify the specific channel and time period within a DICOM ECG Waveform SOP Instance that was analyzed for the measurements in this container. |

TID 3717 ECG Qualitative Analysis

The ECG Qualitative Analysis Template allows a free text qualitative interpretation of the analyzed ECG, as well as a structure for a coded analysis.

Type: Extensible
Order: Significant
Root: No

Table TID 3717. Qualitative Analysis, ECG

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|-----|-----------------|-----------|---|-----|----------|---|--|
| 1 | | CONTAINS | CONTAINER | EV (122145, DCM, "Qualitative Analysis") | 1 | M | | |
| 2 | > | CONTAINS | TEXT | EV (F-00033, SRT, "ECG Finding") | 1 | MC | At least one of rows 2 and 3 shall be present | |
| 3 | > | CONTAINS | CODE | EV (F-00033, SRT, "ECG Finding") | 1-n | MC | At least one of rows 2 and 3 shall be present | BCID 3230 "ECG Findings" |
| 4 | >> | HAS CONCEPT MOD | TEXT | EV (121051, DCM, "Equivalent Meaning of Value") | 1 | U | | Interpretive statement |
| 5 | >> | INFERRED FROM | CODE | EV (F-00033, SRT, "ECG Finding") | 1-n | U | | No BCID; may use implementation-specific codes |
| 6 | >>> | HAS CONCEPT MOD | TEXT | EV (121051, DCM, "Equivalent Meaning of Value") | 1 | U | | Interpretive statement |

Content Item Descriptions

| | |
|---------|--|
| Row 3-4 | ECG Finding provides one or more coded interpretive statements using standard or implementation-specific codes. Each coded finding will include a Code Meaning (0008,0104) using the LO Value Representation (64 characters); longer human-readable text strings may be conveyed in the Row 4 Equivalent Meaning of Value Content Item.. |
| Row 5-6 | Each primary ECG Finding of Row 3 may have multiple supporting coded findings in Row 5, with longer human-readable text strings if necessary in Row 6. |

TID 3718 ECG Interpretive Statement (Retired)

This Template is retired. See PS3.16-2009.

TID 3719 Summary, ECG

Type: Extensible
Order: Significant
Root: No

Table TID 3719. Summary, ECG

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|----------------------------------|
| 1 | | CONTAINS | CONTAINER | EV (121111, DCM, "Summary") | 1 | M | | |
| 2 | > | CONTAINS | TEXT | EV (121111, DCM, "Summary") | 1 | U | | |
| 3 | > | CONTAINS | CODE | DT (18810-2, LN, "ECG overall finding") | 1 | U | | DCID 3677 "Summary Codes ECG" |

Cath Lab Clinical Report Templates

The Templates that comprise the Cardiac Catheterization Report are interconnected as shown in Figure A-7.

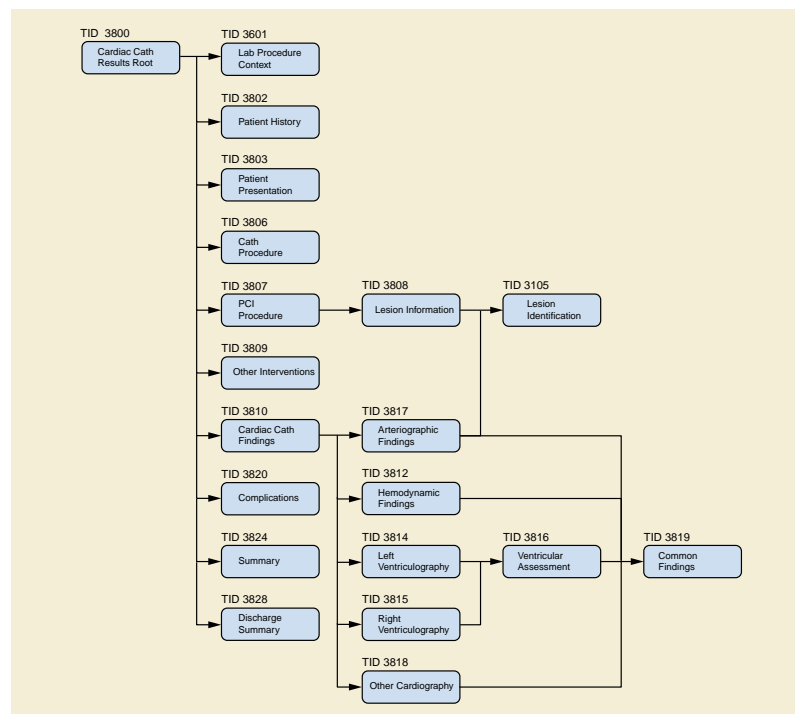


Figure A-7. Cardiac Catheterization Report Template Hierarchy

Note

Figure A-7 shows the relationship of Templates; it does not show the structural hierarchy of Content Items in the IOD.

TID 3800 Cardiac Catheterization Report Root

The Cardiac Cath Report provides the overall clinical results of the catheterization procedure and interventions. In many cases, more detailed information is optionally available in other reports (Hemodynamic Measurements, Procedure Log, etc.). That information is collected and summarized here (and referenced when available).

When a Discharge Summary section (row 12) is included, this report Template covers the full set of information required for submission to the ACC NCDR™ (version 2.0) registry.

Note

1. The information required for such a submission must sometimes be reformatted from a single concept in these Templates to two data elements for the registry, or vice versa.
2. This Template is expected to be used with the Basic Text SR or Enhanced SR IOD.3. This Cardiac Cath Report Template is a baseline Template within these SOP Classes that may be replaced; it is therefore in no sense binding for exchange of this type of report. It is solely an example of a possible encoding of the Cardiac Cath Report.

Type: Extensible
Order: Significant
Root: Yes

Table TID 3800. Cardiac Catheterization Report Root

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|---------------------------------|
| 1 | | | CONTAINER | EV (18745-0, LN, "Cardiac Catheterization Report") | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | DCID 3739 "Cath Procedure Type" |
| 3 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 4 | > | | INCLUDE | DTID 3601 "Procedure Context" | 1 | M | | |
| 5 | > | CONTAINS | INCLUDE | DTID 3802 "Cardiovascular Patient History" | 1 | U | | |
| 6 | > | CONTAINS | INCLUDE | DTID 3803 "Patient Presentation, Cath" | 1 | M | | |
| 7 | > | CONTAINS | INCLUDE | DTID 3806 "Cath Procedure" | 1 | M | | |
| 8 | > | CONTAINS | INCLUDE | DTID 3810 "Cardiac Catheterization Findings" | 1 | M | | |
| 9 | > | CONTAINS | INCLUDE | DTID 3807 "Percutaneous Coronary Intervention Procedure" | 1 | U | | |
| 10 | > | CONTAINS | INCLUDE | DTID 3809 "Other Interventional Procedures" | 1-n | U | | |
| 11 | > | CONTAINS | INCLUDE | DTID 3820 "Adverse Outcomes, Cath" | 1 | M | | |
| 12 | > | CONTAINS | INCLUDE | DTID 3824 "Summary, Cath" | 1 | M | | |
| 13 | > | CONTAINS | INCLUDE | DTID 3828 "Discharge Summary, Cath" | 1 | U | | |

TID 3802 Cardiovascular Patient History

This Template contains information about a cardiovascular patient's past medical history that is relevant for the interpretation of the SR document of which it is part. This information is considered to have some degree of "persistence" across different episodes of care.

Type: Extensible
Order: Significant
Root: No

Table TID 3802. Cardiovascular Patient History

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|----------------------------------|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (11329-0, LN, "History") | 1 | M | | |
| 2 | > | CONTAINS | TEXT | EV (11329-0, LN, "History") | 1 | U | | |
| 3 | > | CONTAINS | CONTAINER | DT (11450-4, LN, "Problem List") | 1 | U | | |
| 4 | >> | CONTAINS | TEXT | DCID 3769 "Concern Types" | 1-n | U | | |
| 5 | >> | CONTAINS | INCLUDE | DTID 3829 "Problem Properties" | 1-n | U | | \$Problem = DCID 3756 "Cardiac Patient Risk Factors" |
| 6 | >> | CONTAINS | INCLUDE | DTID 3829 "Problem Properties" | 1 | U | | \$Problem = EV (G-023F, SRT, "History of Diabetes mellitus") \$Therapy = DCID 3722 "Diabetic Therapy" |
| 7 | >> | CONTAINS | INCLUDE | DTID 3829 "Problem Properties" | 1 | U | | \$Problem = EV (G-0269, SRT, "History of Hypertension") \$Therapy = DCID 3760 "Hypertension Therapy" |
| 8 | >> | CONTAINS | INCLUDE | DTID 3829 "Problem Properties" | 1 | U | | \$Problem = EV (R-102B8, SRT, "History of Hypercholesterolemia") \$Therapy = DCID 3761 "Antilipemic Agents" |
| 9 | >> | CONTAINS | INCLUDE | DTID 3829 "Problem Properties" | 1 | U | | \$Problem = EV (D3-30000, SRT, "Arrhythmia") \$Therapy = DCID 3762 "Antiarrhythmic Agents" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|---|
| 10 | >> | CONTAINS | INCLUDE | DTID 3829 "Problem Properties" | 1 | U | | \$Problem = EV (G-03AA, SRT, "History of Myocardial infarction") \$ModType = DT (122170, DCM, "Type of Myocardial Infarction") \$ModValue = DCID 3723 "MI Types" \$Therapy = DCID 3764 "Myocardial Infarction Therapies" |
| 11 | >> | CONTAINS | INCLUDE | DTID 3829 "Problem Properties" | 1 | U | | \$Problem = EV (G-0069, SRT, "History of Kidney disease") \$Stage = DCID 3778 "Stages" |
| 12 | > | CONTAINS | CONTAINER | DT (29762-2, LN, "Social History") | 1 | U | | |
| 13 | >> | CONTAINS | TEXT | EV (F-02455, SRT, "Social History") | 1 | U | | |
| 14 | >> | CONTAINS | TEXT | DCID 3774 "Social History" | 1-n | U | | |
| 15 | >> | CONTAINS | CODE | EV (F-93109, SRT, "Tobacco Smoking Behavior") | 1 | U | | DCID 3724 "Smoking History" |
| 16 | >> | CONTAINS | CODE | DT (F-931D4, SRT, "Drug misuse behavior") | 1 | U | | DT (D9-30400, SRT, "Cocaine Abuse") |
| 17 | > | CONTAINS | CONTAINER | DT (10167-5, LN, "Past Surgical History") | 1 | U | | |
| 18 | >> | CONTAINS | TEXT | EV (11329-0, LN, "History") | 1-n | U | | |
| 19 | >> | CONTAINS | INCLUDE | DTID 3830 "Procedure Properties" | 1-n | U | | \$ProcType = DT (P0-009C3, SRT, "Surgical Procedure") \$Procedure = DCID 3721 "Cardiovascular Surgeries" |
| 20 | > | CONTAINS | CONTAINER | DT (30954-2, LN, "Relevant Diagnostic Tests and/or Laboratory Data") | 1 | U | | |
| 21 | >> | CONTAINS | TEXT | EV (11329-0, LN, "History") | 1-n | U | | |
| 22 | >> | CONTAINS | INCLUDE | DTID 3830 "Procedure Properties" | 1-n | U | | \$ProcType = DT (P0-00002, SRT, "Diagnostic procedure") \$Procedure = DCID 3757 "Cardiac Diagnostic Procedures" |
| 23 | >> | CONTAINS | NUM | DT (2086-7, LN, "Cholesterol.in HDL") | 1 | U | | UNITS = EV (mg/dl, UCUM, "mg/dl") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|--|-----|----------|-----------|---|
| 24 | >> | CONTAINS | NUM | DT (2089-1, LN, "Cholesterol.in LDL") | 1 | U | | UNITS = EV (mg/dl, UCUM, "mg/dl") |
| 25 | > | CONTAINS | CONTAINER | DT (10160-0, LN, "History of Medication Use") | 1 | U | | |
| 26 | >> | CONTAINS | TEXT | DT (111516, DCM, "Medication Type") | 1-n | U | | |
| 27 | >>> | HAS PROPERTIES | CODE | DT (33999-4, LN, "Status") | 1 | U | | DCID 3773 "Use Status" |
| 28 | >> | CONTAINS | CODE | DT (111516, DCM, "Medication Type") | 1-n | U | | |
| 29 | >>> | HAS PROPERTIES | NUM | DT (G-C0B7, SRT, "Dosage") | 1 | U | | |
| 30 | >>> | HAS PROPERTIES | CODE | DT (33999-4, LN, "Status") | 1 | U | | DCID 3773 "Use Status" |
| 31 | > | CONTAINS | CONTAINER | DT (10157-6, LN, "History of Family Member Diseases") | 1 | U | | |
| 32 | >> | CONTAINS | TEXT | EV (11329-0, LN, "History") | 1-n | U | | |
| 33 | >> | CONTAINS | CODE | EV (G-03E5, SRT, "Family history of clinical finding") | 1-n | U | | DCID 3758 "Cardiovascular Family History" |
| 34 | >>> | HAS PROPERTIES | CODE | EV (G-C32E, SRT, "Subject relationship") | 1 | M | | DCID 7451 "Family Member" |
| 35 | > | CONTAINS | CONTAINER | DT (46264-8, LN, "History of medical device use") | 1 | U | | |
| 36 | >> | CONTAINS | TEXT | EV (11329-0, LN, "History") | 1 | U | | |
| 37 | >> | CONTAINS | INCLUDE | DTID 3831 "Medical Device Use" | 1-n | U | | \$Device = DCID 3777 "Implanted Devices" |

TID 3803 Patient Presentation, Cath

This Template describes the aspects of the patient that are specific to this clinical presentation (admission).

Type: Extensible
Order: Significant
Root: No

Table TID 3803. Patient Presentation, Cath

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|------------------------------|
| 1 | | | CONTAINER | EV (121110, DCM, "Patient Presentation") | 1 | M | | |
| 2 | > | CONTAINS | TEXT | EV (122128, DCM, "Patient Transferred From") | 1 | U | | |
| 3 | > | CONTAINS | DATETIME | EV (15, NCDR [2.0b], "Admission DateTime") | 1 | U | | |
| 4 | > | CONTAINS | CODE | EV (17, NCDR [2.0b], "Admission Status") | 1 | U | | DCID 3729 "Admission Status" |
| 5 | > | CONTAINS | CODE | EV (18, NCDR [2.0b], "Insurance Payor Type") | 1 | U | | DCID 3730 "Insurance Payor" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|---------------------------------------|---|
| 6 | > | CONTAINS | CODE | EV (46, NCDR [2.0b], "Congestive Heart Failure Prior to Procedure") | 1 | U | | DCID 230 "Yes-No" |
| 7 | > | CONTAINS | CODE | EV (47, NCDR [2.0b], "NYHA Classification") | 1 | UC | IFF Row 6 Value code meaning is <yes> | DCID 3736 "NYHA Classification" |
| 8 | > | CONTAINS | CODE | EV (48, NCDR [2.0b], "Noninvasive Testing - Ischemia") | 1 | U | | DCID 3737 "Non-invasive Test - Ischemia" |
| 9 | > | CONTAINS | CODE | EV (49, NCDR [2.0b], "Pre-Cath Angina Type") | 1 | U | | DCID 3738 "Pre-Cath Angina Type" |
| 10 | > | CONTAINS | CODE | EV (50, NCDR [2.0b], "Pre-Cath Canadian Classification") | 1 | U | | DCID 3719 "Canadian Clinical Classification" |
| 11 | > | CONTAINS | CODE | EV (51, NCDR [2.0b], "Acute Coronary Syndrome Time Period") | 1 | UC | IFF Row 9 Value code meaning is <ACS> | DCID 3735 "Acute Coronary Syndrome Time Period" |
| 12 | > | CONTAINS | CONTAINER | EV (18785-6, LN, "Indications for Procedure") | 1 | U | | |
| 13 | >> | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3727 "Indications for Catheterization" |
| 14 | > | CONTAINS | NUM | EV (10230-1, LN, "LV Ejection Fraction") | 1-n | U | | UNITS = EV (% , UCUM, "%") |
| 15 | >> | HAS CONCEPT MOD | CODE | EV (G-C036, SRT, "Measurement method") | 1 | U | | DCID 3744 "EF Testing Method" |
| 16 | >> | | INCLUDE | DTID 1000 "Quotation" | 1 | U | | |
| 17 | > | CONTAINS | CODE | EV (121069, DCM, "Previous Finding") | 1-n | U | | DCID 3700 "Cath Diagnosis" |
| 18 | > | CONTAINS | TEXT | EV (121110, DCM, "Patient Presentation") | 1 | U | | |

TID 3806 Cath Procedure

This Template describes the patient-related information about this specific clinical encounter (catheterization).

Type: Extensible
Order: Significant
Root: No

Table TID 3806. Cath Procedure

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (55111-9, LN, "Current Procedure Descriptions") | 1 | M | | |
| 2 | > | CONTAINS | DATETIME | EV (52, NCDR [2.0b], "Procedure DateTime") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|--|
| 3 | > | CONTAINS | TEXT | EV (53, NCDR [2.0b], "Procedure Number in this admission") | 1 | U | | Up to three numeric characters |
| 4 | > | CONTAINS | TEXT | EV (121065, DCM, "Procedure Description") | 1 | U | | |
| 5 | > | CONTAINS | COMPOSITE | EV (121120, DCM, "Cath Lab Procedure Log") | 1-n | U | | |
| 6 | > | CONTAINS | NUM | EV (55, NCDR [2.0b], "Fluoroscopy Time") | 1 | U | | UNITS = DT (min, UCUM, "min") |
| 7 | > | CONTAINS | NUM | EV (122130, DCM, "Dose Area Product") | 1 | U | | UNITS = DT (mGy.cm2, UCUM, "mGy.cm2") |
| 8 | > | CONTAINS | PNAME | EV (76, NCDR [2.0b], "Catheterization Operator") | 1 | M | | |
| 9 | > | CONTAINS | PNAME | EV (121088, DCM, "Fellow") | 1-n | U | | |
| 10 | > | CONTAINS | PNAME | BCID 7453 "Performing Roles" | 1-n | U | | |
| 11 | > | CONTAINS | CODE | EV (122129, DCM, "PCI during this procedure") | 1 | U | | DCID 230 "Yes-No" |
| 12 | > | CONTAINS | CONTAINER | EV (F-04460, SRT, "Medication Given") | 1 | M | | |
| 13 | >> | CONTAINS | CODE | EV (57, NCDR [2.0b], "Thrombolytics") | 1 | U | | DCID 3740 "Thrombolytic Administration" |
| 14 | >> | CONTAINS | CODE | EV (58, NCDR [2.0b], "IIB/IIa Blockade") | 1 | U | | DCID 3741 "Medication Administration, Lab Visit" |
| 15 | >> | CONTAINS | CODE | EV (59, NCDR [2.0b], "Heparin") | 1-n | U | | DCID 3742 "Medication Administration, PCI" |
| 16 | >> | CONTAINS | CODE | EV (60, NCDR [2.0b], "Aspirin") | 1 | U | | DCID 3741 "Medication Administration, Lab Visit" |
| 17 | >> | CONTAINS | CODE | EV (61, NCDR [2.0b], "Clopidogrel/Ticlopidine") | 1 | U | | DCID 3743 "Clopidogrel/Ticlopidine Administration" |
| 18 | >> | CONTAINS | TEXT | EV (122083, DCM, "Drug administered") | 1-n | U | | |
| 19 | > | CONTAINS | CODE | EV (122138, DCM, "Circulatory Support") | 1-n | U | | DCID 3553 "Circulatory Support" |
| 20 | > | CONTAINS | CODE | EV (74, NCDR [2.0b], "Percutaneous Entry Site") | 1 | M | | DCID 3746 "Percutaneous Entry Site" |
| 21 | > | CONTAINS | CODE | EV (75, NCDR [2.0b], "Closure Device") | 1 | U | | DCID 3747 "Percutaneous Closure" |

Content Item Descriptions

| | |
|-------|--|
| Row 3 | Procedure Number (this admission) is specified as a numeric text string, and shall be treated as the ordinal of this catheterization procedure within the admission (i.e., "1" for the first catheterization, "2" for the second, etc.). |
|-------|--|

TID 3807 Percutaneous Coronary Intervention Procedure

This Template describes the various aspects of a coronary intervention.

Type: Extensible
Order: Significant
Root: No

Table TID 3807. Percutaneous Coronary Intervention Procedure

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|---|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (55111-9, LN, "Current Procedure Descriptions") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | DT (122061, DCM, "Percutaneous Coronary Intervention") |
| 3 | > | CONTAINS | PNAME | EV (121114, DCM, "Performing Physician") | 1 | M | | |
| 4 | > | CONTAINS | PNAME | EV (121088, DCM, "Fellow") | 1-n | U | | |
| 5 | > | CONTAINS | PNAME | DCID 7452 "Organizational Roles" | 1-n | U | | |
| 6 | > | CONTAINS | CODE | EV (G-C09C, SRT, "Procedure Priority") | 1 | M | | DCID 3414 "Procedure Urgency" |
| 7 | > | CONTAINS | CONTAINER | EV (18785-6, LN, "Indications for Procedure") | 1 | U | | |
| 8 | >> | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3726 "Indications for Coronary Intervention" |
| 9 | >> | CONTAINS | CODE | EV (122172, DCM, "Acute MI Present") | 1 | U | | DCID 230 "Yes-No" |
| 10 | >>> | HAS PROPERTIES | CODE | DT (122170, DCM, "Type of Myocardial Infarction") | 1 | U | | DCID 3723 "MI Types" |
| 11 | >>> | HAS PROPERTIES | DATETIME | EV (122173, DCM, "ST Elevation Onset DateTime") | 1 | U | | |
| 12 | >> | CONTAINS | TEXT | EV (121071, DCM, "Finding") | 1-n | U | | |
| 13 | > | CONTAINS | NUM | EV (122175, DCM, "Number of lesion interventions attempted") | 1 | M | | UNITS = EV (1, UCUM, "units") |
| 14 | > | CONTAINS | NUM | EV (122176, DCM, "Number of lesion interventions successful") | 1 | M | | UNITS = EV (1, UCUM, "units") |
| 15 | > | CONTAINS | CODE | EV (122177, DCM, "Procedure Result") | 1 | M | | DCID 3749 "PCI Procedure Result" |
| 16 | > | CONTAINS | TEXT | EV (122177, DCM, "Procedure Result") | 1 | U | | |
| 17 | > | CONTAINS | INCLUDE | DTID 3808 "Lesion Intervention Information" | 1-n | M | | |

Content Item Descriptions

| | |
|----------------|---|
| Rows 8 and 12 | Allow the recording of findings as either codes or as text; the same finding shall not be recorded as both. |
| Rows 15 and 16 | Allow the recording of procedure results as either codes or as text, but not as both. |

TID 3808 Lesion Intervention Information

Type: Extensible
Order: Significant
Root: No

Table TID 3808. Lesion Intervention Information

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|--------------------------------------|---|
| 1 | | | CONTAINER | EV (122178, DCM, "Lesion Intervention Information") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 3105 "Lesion Identification and Properties" | 1 | M | | |
| 3 | > | CONTAINS | CODE | EV (108, NDR [2.0b], "Previous Dilation") | 1 | U | | DCID 3750 "Previously Dilated Lesion" |
| 4 | > | CONTAINS | CODE | EV (103, NDR [2.0b], "Guidewire crossing lesion") | 1 | U | | DCID 3752 "Guidewire Crossing" |
| 5 | > | CONTAINS | CODE | EV (G-C50A, SRT, "Uses Equipment") | 1-n | M | | DCID 3411 "Intracoronary Devices" |
| 6 | >> | HAS CONCEPT MOD | CODE | EV (122111, DCM, "Primary Intervention Device") | 1 | MC | IF Device is Primary for this Lesion | DCID 230 "Yes-No" |
| 7 | >> | HAS PROPERTIES | TEXT | EV (121145, DCM, "Description of Material") | 1 | U | | |
| 8 | >> | HAS PROPERTIES | NUM | DCID 3423 "Numeric Device Characteristics" | 1-n | U | | |
| 9 | >> | HAS PROPERTIES | NUM | DCID 3425 "Intervention Parameters" | 1-n | U | | |
| 10 | >> | HAS PROPERTIES | DATETIME | EV (122105, DCM, "DateTime of Intervention") | 1 | U | | |
| 11 | >> | HAS PROPERTIES | NUM | EV (122106, DCM, "Duration of Intervention") | 1 | U | | UNITS = EV (s, UCUM, "s") |
| 12 | > | CONTAINS | NUM | EV (R-101BB, SRT, "Lumen Diameter Stenosis") | 1 | M | | UNITS = EV (% , UCUM, "%") |
| 13 | >> | HAS CONCEPT MOD | CODE | EV (G-72BB, SRT, "Catheterization Procedure Phase") | 1 | M | | EV (G-7298, SRT, "Post-intervention Phase") |
| 14 | >> | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | U | | DCID 3745 "Calculation Method" |
| 15 | >> | | INCLUDE | DTID 1000 "Quotation" | 1 | U | | |
| 16 | > | CONTAINS | CODE | EV (122110, DCM, "Post-Intervention TIMI Flow") | 1 | U | | DCID 3713 "TIMI Flow Characteristics" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-------|---|----|----------|---------------------------|----------------------|
| 17 | > | CONTAINS | CODE | EV (115, NCDR [2.0b], "Dissection in segment observed") | 1 | U | | DCID 230 "Yes-No" |
| 18 | > | CONTAINS | CODE | EV (116, NCDR [2.0b], "Acute closure observed") | 1 | U | | DCID 230 "Yes-No" |
| 19 | > | CONTAINS | CODE | EV (117, NCDR [2.0b], "Acute closure re-opened") | 1 | UC | IFF Row 18 value is <yes> | DCID 230 "Yes-No" |
| 20 | > | CONTAINS | CODE | EV (118, NCDR [2.0b], "Perforation occurred") | 1 | U | | DCID 230 "Yes-No" |
| 21 | > | CONTAINS | IMAGE | DT (121080, DCM, "Best illustration of finding") | 1 | U | | |
| 22 | > | CONTAINS | TEXT | DT (122177, DCM, "Procedure Result") | 1 | U | | |

TID 3809 Other Interventional Procedures

Type: Extensible
Order: Significant
Root: No

Table TID 3809. Other Interventional Procedures

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (55111-9, LN, "Current Procedure Descriptions") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | BCID 3406 "Non-coronary Transcatheter Interventions" |
| 3 | > | CONTAINS | TEXT | EV (121065, DCM, "Procedure Description") | 1 | U | | |
| 4 | > | CONTAINS | CODE | DT (121065, DCM, "Procedure Description") | 1 | U | | No BCID |
| 5 | > | CONTAINS | TEXT | DT (122177, DCM, "Procedure Result") | 1 | U | | |

Content Item Descriptions

| | |
|--------------|---|
| Rows 3 and 4 | Allow the recording of procedure description as either code or as text; the same description shall not be recorded as both. |
|--------------|---|

TID 3810 Cardiac Catheterization Findings

The Cardiac Catheterization Findings Template provides the structure for the diagnostic findings of the cath procedure, organized into sub-sections based on type of sub-procedure. It also provides for top-level summary findings and diagnoses.

Type: Extensible
Order: Significant
Root: No

Table TID 3810. Cardiac Catheterization Findings

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|----------------------------|
| 1 | | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 3812 "Hemodynamic Findings" | 1 | U | | |
| 3 | > | CONTAINS | INCLUDE | DTID 3817 "Coronary Arteriography Findings" | 1 | U | | |
| 4 | > | CONTAINS | INCLUDE | DTID 3814 "Left Ventriculography Findings" | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 3815 "Right Ventriculography Findings" | 1 | U | | |
| 6 | > | CONTAINS | INCLUDE | DTID 3818 "Other Cardiographic Findings" | 1-n | U | | |
| 7 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3700 "Cath Diagnosis" |
| 8 | >> | HAS PROPERTIES | CODE | EV (G-C197, SRT, "Severity") | 1 | U | | DCID 3716 "Severity" |
| 9 | > | CONTAINS | TEXT | EV (121071, DCM, "Finding") | 1-n | U | | |

Content Item Descriptions

| | |
|--------------|---|
| Rows 7 and 9 | Allow the recording of findings as either codes or as text; the same finding shall not be recorded as both. |
|--------------|---|

TID 3812 Hemodynamic Findings

Type: Extensible
Order: Significant
Root: No

Table TID 3812. Hemodynamic Findings

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | DT (PA-50030, SRT, "Hemodynamic measurements") |
| 3 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3640 "Hypertension" |
| 4 | >> | | INCLUDE | DTID 1350 "Negation Modifier, Presence of Finding" | 1 | U | | |
| 5 | >> | HAS PROPERTIES | CODE | EV (G-C197, SRT, "Severity") | 1 | U | | DCID 3716 "Severity" |
| 6 | > | CONTAINS | CODE | DCID 3641 "Hemodynamic Assessments" | 1-n | U | | DCID 3642 "Degree Findings" |
| 7 | >> | HAS PROPERTIES | CODE | EV (G-C0B2, SRT, "Condition") | 1 | U | | EV (R-102B9, SRT, "Large v-wave") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|-----------------------------|-----|----------|-----------|--|
| 8 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1 | U | | EV (R-102BA, SRT, "Diastolic pressure equalization") |
| 9 | > | CONTAINS | INCLUDE | DTID 3819 "Common Findings" | 1-n | U | | \$Report = DT (122120, DCM, "Hemodynamics Report") |

Content Item Descriptions

| | |
|-------|--|
| Row 4 | (Through TID 3819 "Common Findings") may be used to encode any significant hemodynamic numeric measurements. For reference, see TID 3550 "Pressure Waveform Measurements" and TID 3560 "Derived Hemodynamic Measurements". |
|-------|--|

TID 3814 Left Ventriculography Findings

The information contained here about the left ventricle is relatively qualitative in nature. It is a high-level summary of the more detailed information that may be contained in an optional Quantitative Ventricular Analysis report. This Template addresses findings about any ventricular septal defect (Row 7), the myocardial wall (Row 11), and about the aortic root (Row 16).

Type: Extensible
Order: Significant
Root: No

Table TID 3814. Left Ventriculography Findings

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | DT (P5-30041, SRT, "Left Ventriculography") |
| 3 | > | CONTAINS | CODE | EV (F-30117, SRT, "Left Ventricular Function - Finding") | 1 | M | | DCID 242 "Normal-Abnormal" |
| 4 | > | | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (10230-1, LN, "LV Ejection Fraction") \$Units = EV (% , UCUM, "%") \$Method = DCID 3748 "Angiographic EF Testing Method" \$Derivation = DCID 3745 "Calculation Method" |
| 5 | > | CONTAINS | CODE | EV (F-0224E, SRT, "Left Ventricular Cavity Size") | 1 | U | | DCID 3705 "Chamber Size" |
| 6 | > | CONTAINS | CODE | EV (F-02225, SRT, "Left Ventricular Contractility") | 1 | U | | DCID 3706 "Overall Contractility" |
| 7 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1 | U | | EV (D4-31150, SRT, "Ventricular Septal Defect") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|---|-----|----------|-----------|---|
| 8 | >> | HAS PROPERTIES | CODE | EV (G-C504, SRT, "Associated Morphology") | 1 | U | | DCID 3707 "VSD Description" |
| 9 | > | CONTAINS | INCLUDE | DTID 3816 "Ventricular Assessment" | 1 | U | | |
| 10 | > | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1 | U | | |
| 11 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DT (T-D0772, SRT, "Myocardial Wall") |
| 12 | >> | CONTAINS | CODE | EV (18179-2, LN, "Wall Segment") | 1-n | M | | BCID 3717 "Myocardial Wall Segments" |
| 13 | >>> | HAS PROPERTIES | CODE | EV (F-32050, SRT, "Cardiac Wall Motion") | 1 | M | | DCID 3703 "Wall Motion" |
| 14 | >>> | HAS PROPERTIES | CODE | EV (G-C504, SRT, "Associated Morphology") | 1 | U | | DCID 3704 "Myocardium Wall Morphology Findings" |
| 15 | >>> | HAS PROPERTIES | NUM | DT (G-C1E3, SRT, "Score") | 1 | U | | |
| 16 | > | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1 | U | | |
| 17 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DT (F-04403, SRT, "Aortic Root") |
| 18 | >> | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | M | | DCID 3709 "Aortic Root Description" |

TID 3815 Right Ventriculography Findings

The information contained here about right ventricle is relatively qualitative in nature. It is a high-level summary of the more detailed information that may be contained in an optional Quantitative Ventricular Analysis report.

Type: Extensible
Order: Significant
Root: No

Table TID 3815. Right Ventriculography Findings

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|---|
| 1 | | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | DT (P5-3003F, SRT, "Right Ventriculography") |
| 3 | > | | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (10231-9, LN, "RV Ejection Fraction") \$Units = EV (%, UCUM, "%") \$Method = DCID 3748 "Angiographic EF Testing Method" \$Derivation = DCID 3745 "Calculation Method" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|----|----------|-----------|-----------------------------------|
| 4 | > | CONTAINS | CODE | EV (F-022A1, SRT, "Right Ventricular Cavity Size") | 1 | U | | DCID 3705 "Chamber Size" |
| 5 | > | CONTAINS | CODE | EV (F-0227A, SRT, "Right Ventricular Contractility") | 1 | U | | DCID 3706 "Overall Contractility" |
| 6 | > | CONTAINS | INCLUDE | DTID 3816 "Ventricular Assessment" | 1 | U | | |

TID 3816 Ventricular Assessment

Type: Extensible
Order: Significant
Root: No

Table TID 3816. Ventricular Assessment

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|----------------------------------|-----|----------|-----------|---|
| 1 | | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1-n | U | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DCID 3701 "Cardiac Valves and Tracts" |
| 3 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | M | | DCID 3711 "Valvular Abnormalities" |
| 4 | >> | HAS PROPERTIES | CODE | EV (G-C197, SRT, "Severity") | 1 | U | | DCID 3716 "Severity" |
| 5 | >> | HAS PROPERTIES | NUM | DT (G-C1E3, SRT, "Score") | 1 | U | | |
| 6 | | CONTAINS | INCLUDE | DTID 3819 "Common Findings" | 1-n | U | | \$Report = DT (122292, DCM, "Quantitative Ventriculography Report") |

TID 3817 Coronary Arteriography Findings

The information contained here about with regards to coronary artery lesions is relatively qualitative in nature. It is a high-level summary of the more detailed information that may be contained in an optional Quantitative Coronary Arteriography report. This Template addresses findings about the individual arteries (Row 4), and about individual lesions (Row 9).

Type: Extensible
Order: Significant
Root: No

Table TID 3817. Coronary Arteriography Findings

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | DT (P5-30100, SRT, "Coronary Arteriography") |
| 3 | > | CONTAINS | CODE | EV (F-04404, SRT, "Coronary artery feature") | 1 | U | | DCID 3710 "Coronary Dominance" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|--|-----|----------|-----------|--|
| 4 | > | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1-n | U | | |
| 5 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | BCID 3015 "Coronary Arteries" |
| 6 | >>> | HAS CONCEPT MOD | CODE | EV (G-A1F8, SRT, "Topographical modifier") | 1 | U | | BCID 3019 "Cardiovascular Anatomic Location Modifiers" |
| 7 | >> | CONTAINS | CODE | EV (122134, DCM, "Vessel Morphology") | 1-n | U | | DCID 3712 "Vessel Descriptors" |
| 8 | >> | CONTAINS | INCLUDE | DTID 3819 "Common Findings" | 1-n | U | | |
| 9 | > | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1-n | U | | |
| 10 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DT (R-002EF, SRT, "Coronary artery lesion (culprit)") |
| 11 | >> | CONTAINS | INCLUDE | DTID 3105 "Lesion Identification and Properties" | 1 | M | | |
| 12 | >> | CONTAINS | INCLUDE | DTID 3819 "Common Findings" | 1-n | U | | \$Report = DT (122291, DCM, "Quantitative Arteriography Report") |

TID 3818 Other Cardiographic Findings

Type: Extensible
 Order: Significant
 Root: No

Table TID 3818. Other Cardiographic Findings

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|---|
| 1 | | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | BCID 3428 "Imaging Procedures" |
| 3 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | U | | BCID 3630 "Cardiovascular Anatomic Locations" |
| 4 | > | CONTAINS | INCLUDE | DTID 3819 "Common Findings" | 1-n | M | | |

TID 3819 Common Findings

Table TID 3819. Parameters

| Parameter Name | Parameter Usage |
|----------------|--|
| \$Report | Title of composite object (evidence document) referenced |

Type: Extensible

Order: Significant
Root: No

Table TID 3819. Common Findings

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | TEXT | EV (121071, DCM, "Finding") | 1 | U | | |
| 2 | | | IMAGE | DT (121080, DCM, "Best illustration of finding") | 1 | U | | |
| 3 | | | NUM | No BCID | 1 | U | | |
| 4 | > | | INCLUDE | DTID 1000 "Quotation" | 1 | U | | |
| 5 | | | COMPOSITE | DT (122073, DCM, "Current procedure evidence") | 1 | U | | |
| 6 | > | HAS PROPERTIES | CODE | EV (121144, DCM, "Document Title") | 1 | U | | \$Report |

Content Item Descriptions

| | |
|-------|---|
| Row 3 | May be used to encode any significant image- or waveform-based numeric measurements, with post-coordination of the Concept Name using child Content Items (with relationship HAS CONCEPT MOD), as permitted by Section 6.2.4. The source of the measurement may be noted using the Quotation Template in Row 4. |
|-------|---|

TID 3820 Adverse Outcomes, Cath

Type: Extensible
Order: Significant
Root: No

Table TID 3820. Adverse Outcomes, Cath

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (121113, DCM, "Complications") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (DD-60002, SRT, "Complication of Procedure") | 1-n | U | | DCID 3755 "Cath Complications" |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (G-D709, SRT, "Relative Time") | 1 | U | | DCID 12102 "Temporal Periods Relating to Procedure or Therapy" |
| 4 | > | CONTAINS | CODE | EV (DD-60002, SRT, "Complication of Procedure") | 1-n | U | | DCID 3754 "Vascular Complications" |
| 5 | >> | HAS CONCEPT MOD | CODE | EV (G-D709, SRT, "Relative Time") | 1 | U | | DCID 12102 "Temporal Periods Relating to Procedure or Therapy" |
| 6 | > | CONTAINS | TEXT | EV (DD-60002, SRT, "Complication of Procedure") | 1-n | U | | |
| 7 | > | CONTAINS | CODE | EV (122179, DCM, "Peri-procedural MI occurred") | 1 | U | | DCID 230 "Yes-No" |
| 8 | >> | INFERRED FROM | NUM | EV (122181, DCM, "CK-MB peak") | 1 | U | | UNITS = EV ([iU], UCUM, "International unit") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-------|--|-----|----------|-----------|---|
| 9 | >>> | HAS PROPERTIES | NUM | EV (R-0038B, SRT, "Normal Range Upper Limit") | 1 | M | | UNITS = EV ([iU], UCUM, "International unit") |
| 10 | >> | INFERRED FROM | NUM | EV (122180, DCM, "CK-MB baseline") | 1 | M | | UNITS = EV ([iU], UCUM, "International unit") |
| 11 | > | CONTAINS | IMAGE | DT (121080, DCM, "Best illustration of finding") | 1-n | U | | |

Content Item Descriptions

| | |
|-----------------|---|
| Rows 2, 3 and 4 | Allow the recording of outcomes as either codes or as text; the same outcome shall not be recorded as both. |
|-----------------|---|

TID 3824 Summary, Cath

Type: Extensible
Order: Non-Significant
Root: No

Table TID 3824. Summary, Cath

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------------|-----|----------|-----------|---------------------------|
| 1 | | CONTAINS | CONTAINER | EV (121111, DCM, "Summary") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3728 "Cath Findings" |
| 3 | >> | HAS PROPERTIES | CODE | EV (G-C197, SRT, "Severity") | 1 | U | | DCID 3716 "Severity" |
| 4 | > | CONTAINS | TEXT | EV (121111, DCM, "Summary") | 1 | U | | |
| 5 | > | CONTAINS | TEXT | EV (121075, DCM, "Recommendation") | 1-n | U | | |

TID 3828 Discharge Summary, Cath

Type: Extensible
Order: Significant
Root: No

Table TID 3828. Discharge Summary, Cath

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|-------------------------------|
| 1 | | CONTAINS | CONTAINER | EV (121115, DCM, "Discharge Summary") | 1 | M | | |
| 2 | > | CONTAINS | DATETIME | EV (122163, DCM, "Discharge DateTime") | 1 | U | | |
| 3 | > | CONTAINS | CODE | EV (122164, DCM, "Coronary Artery Bypass During This Admission") | 1 | U | | DCID 230 "Yes-No" |
| 4 | >> | HAS PROPERTIES | CODE | EV (G-C09C, SRT, "Procedure Priority") | 1 | U | | BCID 3414 "Procedure Urgency" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|----------|--|----|----------|-----------|------------------------------------|
| 5 | >> | HAS PROPERTIES | DATETIME | EV (122146, DCM, "Procedure DateTime") | 1 | U | | |
| 6 | > | CONTAINS | CODE | EV (122166, DCM, "Death During This Admission") | 1 | U | | DCID 230 "Yes-No" |
| 7 | >> | HAS PROPERTIES | DATETIME | EV (122165, DCM, "DateTime of Death") | 1 | U | | |
| 8 | >> | HAS PROPERTIES | CODE | EV (25, NCDR [2.0b], "Primary Cause of Death") | 1 | U | | DCID 3733 "Primary Cause of Death" |
| 9 | >> | HAS PROPERTIES | CODE | EV (122167, DCM, "Death During Catheterization") | 1 | U | | DCID 230 "Yes-No" |
| 10 | > | CONTAINS | TEXT | EV (121111, DCM, "Summary") | 1 | U | | |

TID 3829 Problem Properties

Table TID 3829. Parameters

| Parameter Name | Parameter Usage |
|----------------|---|
| \$Problem | Coded Value or Context Group for problem |
| \$ModType | Modifier Name for Concept Name of problem |
| \$ModValue | Modifier Value for Concept Name of problem |
| \$Therapy | Coded Value or Context Group for therapy received for problem |
| \$Stage | Coded Value or Context Group for problem or disease stage |

Type: Extensible
Order: Significant
Root: No

Table TID 3829. Problem Properties

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|----------------------------|
| 1 | | | CONTAINER | EV (121430, DCM, "Concern") | 1 | M | | |
| 2 | > | CONTAINS | DATETIME | DT (121431, DCM, "DateTime Concern Noted") | 1 | U | | |
| 3 | > | CONTAINS | DATETIME | DT (121432, DCM, "DateTime Concern Resolved") | 1 | U | | |
| 4 | > | CONTAINS | CODE | DCID 3769 "Concern Types" | 1 | M | | \$Problem |
| 5 | >> | HAS CONCEPT MOD | CODE | \$ModType | 1-n | U | | \$ModValue |
| 6 | >> | HAS PROPERTIES | DATETIME | DT (111526, DCM, "DateTime Started") | 1 | U | | |
| 7 | >> | HAS PROPERTIES | DATETIME | DT (121433, DCM, "DateTime Problem Resolved") | 1 | U | | |
| 8 | >> | HAS PROPERTIES | CODE | DT (33999-4, LN, "Status") | 1 | U | | DCID 3770 "Problem Status" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|-----------------------------------|-----|----------|-----------|---------------------------|
| 9 | >> | HAS PROPERTIES | CODE | DT (G-C197, SRT, "Severity") | 1 | U | | DCID 3716 "Severity" |
| 10 | >> | HAS PROPERTIES | CODE | DT (G-C16B, SRT, "Stage") | 1 | U | | \$Stage |
| 11 | > | CONTAINS | CODE | DT (11323-3, LN, "Health status") | 1 | U | | DCID 3772 "Health Status" |
| 12 | > | CONTAINS | CODE | EV (P0-0000E, SRT, "Therapy") | 1-n | U | | \$Therapy |
| 13 | >> | HAS PROPERTIES | CODE | DT (33999-4, LN, "Status") | 1 | U | | DCID 3773 "Use Status" |
| 14 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

TID 3830 Procedure Properties

Table TID 3830. Parameters

| Parameter Name | Parameter Usage |
|----------------|--|
| \$ProcType | Coded Value for class of procedure |
| \$Procedure | Coded Value or Context Group for procedure |
| \$ModType | Modifier Name for Concept Name of procedure |
| \$ModValue | Modifier Value for Concept Name of procedure |

Type: Extensible
Order: Significant
Root: No

Table TID 3830. Procedure Properties

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|----------------------------------|--|
| 1 | | | CODE | \$ProcType | 1 | M | | \$Procedure |
| 2 | > | HAS CONCEPT MOD | CODE | \$ModType | 1-n | U | | \$ModValue |
| 3 | > | HAS PROPERTIES | DATETIME | DT (111526, DCM, "DateTime Started") | 1 | U | | |
| 4 | > | HAS PROPERTIES | COMPOSITE | EV (R-42B89, SRT, "Clinical Report") | 1-n | U | | |
| 5 | >> | HAS PROPERTIES | CODE | EV (121144, DCM, "Document Title") | 1 | U | | |
| 6 | > | HAS PROPERTIES | TEXT | EV (R-42B89, SRT, "Clinical Report") | 1-n | U | | Description of report with URL or other reference for report |
| 7 | > | HAS PROPERTIES | TEXT | DT (121434, DCM, "Service Delivery Location") | 1 | U | | |
| 8 | > | HAS PROPERTIES | PNAME | DT (121435, DCM, "Service Performer") | 1 | UC | IF Service Performer is a person | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---------------------------------------|----|----------|---|----------------------|
| 9 | > | HAS PROPERTIES | TEXT | DT (121435, DCM, "Service Performer") | 1 | UC | IF Service Performer is an organization | |
| 10 | > | HAS PROPERTIES | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

TID 3831 Medical Device Use

Table TID 3831. Parameters

| Parameter Name | Parameter Usage |
|----------------|--------------------------------|
| \$Device | Coded Value for type of device |

Type: Extensible
Order: Significant
Root: No

Table TID 3831. Medical Device Use

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|----------|---|----|----------|-----------|------------------------|
| 1 | | | CODE | EV (121436, DCM, "Medical Device Used") | 1 | M | | \$Device |
| 2 | > | HAS PROPERTIES | DATETIME | DT (111526, DCM, "DateTime Started") | 1 | U | | |
| 3 | > | HAS PROPERTIES | DATETIME | DT (111527, DCM, "DateTime Ended") | 1 | U | | |
| 4 | > | HAS PROPERTIES | CODE | DT (33999-4, LN, "Status") | 1 | U | | DCID 3773 "Use Status" |
| 5 | > | HAS PROPERTIES | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

CT/MR Cardiovascular Analysis Report Templates

TID 3900 CT/MR Cardiovascular Analysis Report

Root Template of the Non-invasive Computed Tomography and Magnetic Resonance Cardiovascular Analysis Report.

This Template contains the top level structure and includes subordinate Templates for the various analyses.

Type: Extensible
Order: Significant
Root: Yes

Table TID 3900. CT/MR Cardiovascular Analysis Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (122600, DCM, "Cardiovascular Analysis Report") | 1 | M | | Root node |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|---|
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure Reported") | 1-n | M | | DCID 3820 "Non-invasive Vascular Procedures" |
| 3 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 4 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |
| 5 | > | CONTAINS | INCLUDE | DTID 3602 "Cardiovascular Patient Characteristics" | 1 | U | | |
| 6 | > | CONTAINS | INCLUDE | DTID 3802 "Cardiovascular Patient History" | 1 | U | | |
| 7 | > | CONTAINS | INCLUDE | DTID 3901 "Procedure Summary" | 1 | U | | |
| 8 | > | CONTAINS | INCLUDE | DTID 3902 "Vascular Analysis" | 1 | U | | \$AnalysisPerformed = EV (122605, DCM, "Vascular Morphological Analysis") |
| 9 | > | CONTAINS | INCLUDE | DTID 3902 "Vascular Analysis" | 1 | U | | \$AnalysisPerformed = EV (122606, DCM, "Vascular Functional Analysis") |
| 10 | > | CONTAINS | INCLUDE | DTID 3920 "Ventricular Analysis" | 1 | U | | |
| 11 | > | CONTAINS | INCLUDE | DTID 3927 "Report Summary" | 1-n | U | | |

TID 3901 Procedure Summary

Contains summaries related to the performed procedures.

Type: Extensible
Order: Significant
Root: No

Table TID 3901. Procedure Summary

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|---|
| 1 | | CONTAINS | CONTAINER | EV (55111-9, LN, "Current Procedure Descriptions") | 1 | M | | |
| 2 | > | CONTAINS | TEXT | EV (121065, DCM, "Procedure Description") | 1-n | M | | |
| 3 | > | CONTAINS | CODE | DT (RID11248, RADLEX, "Cardiac Gating") | 1 | U | | DCID 3104 "Cardiac Synchronization Technique" |

TID 3902 Vascular Analysis

Contains either morphological or functional vascular measurement results of an analysis

Table TID 3902. Parameters

| Parameter Name | Parameter Usage |
|---------------------|--------------------|
| \$AnalysisPerformed | Analysis Performed |

Type: Extensible
Order: Significant
Root: No

Table TID 3902. Vascular Analysis

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|---|---|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111004, DCM, "Analysis Performed") | 1 | M | | \$AnalysisPerformed |
| 3 | > | CONTAINS | INCLUDE | DTID 3905 "Calcium Scoring Results" | 1 | UC | IFF the value of row 2 equals EV (122605, DCM, "Vascular Morphological Analysis") | |
| 4 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-40501, SRT, "Blood Vessel of Head") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12105 "Intracranial Cerebral Vessels" \$AnalysisPerformed = \$AnalysisPerformed |
| 5 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-40501, SRT, "Blood Vessel of Head") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12105 "Intracranial Cerebral Vessels" \$AnalysisPerformed = \$AnalysisPerformed |
| 6 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-40501, SRT, "Blood Vessel of Head") \$SectionLaterality = EV (G-A103, SRT, "Unilateral") \$Anatomy = DCID 12106 "Intracranial Cerebral Vessels (Unilateral)" \$AnalysisPerformed = \$AnalysisPerformed |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|-----------|--|
| 7 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-45005, SRT, "Artery of Neck") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12104 "Extracranial Arteries" \$AnalysisPerformed = \$AnalysisPerformed |
| 8 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-45005, SRT, "Artery of Neck") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12104 "Extracranial Arteries" \$AnalysisPerformed = \$AnalysisPerformed |
| 9 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-47040, SRT, "Artery of Lower Extremity ") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12109 "Lower Extremity Arteries" \$AnalysisPerformed = \$AnalysisPerformed |
| 10 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-47040, SRT, "Artery of Lower Extremity ") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12109 "Lower Extremity Arteries" \$AnalysisPerformed = \$AnalysisPerformed |
| 11 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-49403, SRT, "Vein of Lower Extremity") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12110 "Lower Extremity Veins" \$AnalysisPerformed = \$AnalysisPerformed |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|-----------|---|
| 12 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-49403, SRT, "Vein of Lower Extremity") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12110 "Lower Extremity Veins" \$AnalysisPerformed = \$AnalysisPerformed |
| 13 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-47020, SRT, "Artery of Upper Extremity") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12107 "Upper Extremity Arteries" \$AnalysisPerformed = \$AnalysisPerformed |
| 14 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-47020, SRT, "Artery of Upper Extremity") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12107 "Upper Extremity Arteries" \$AnalysisPerformed = \$AnalysisPerformed |
| 15 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-49103, SRT, "Vein of Upper Extremity") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12108 "Upper Extremity Veins" \$AnalysisPerformed = \$AnalysisPerformed |
| 16 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-49103, SRT, "Vein of Upper Extremity") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12108 "Upper Extremity Veins" \$AnalysisPerformed = \$AnalysisPerformed |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|-----------|---|
| 17 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-71019, SRT, "Vascular Structure of Kidney") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12115 "Renal Vessels" \$AnalysisPerformed = \$AnalysisPerformed |
| 18 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-71019, SRT, "Vascular Structure of Kidney") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12115 "Renal Vessels" \$AnalysisPerformed = \$AnalysisPerformed |
| 19 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-46002, SRT, "Artery of Abdomen") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12111 "Abdominal Arteries (Lateral)" \$AnalysisPerformed = \$AnalysisPerformed |
| 20 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-46002, SRT, "Artery of Abdomen") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12111 "Abdominal Arteries (Lateral)" \$AnalysisPerformed = \$AnalysisPerformed |
| 21 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-46002, SRT, "Artery of Abdomen") \$SectionLaterality = EV (G-A103, SRT, "Unilateral") \$Anatomy = DCID 12112 "Abdominal Arteries (Unilateral)" \$AnalysisPerformed = \$AnalysisPerformed |
| 22 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-487A0, SRT, "Vein of Abdomen") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12113 "Abdominal Veins (Lateral)" \$AnalysisPerformed = \$AnalysisPerformed |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|-----------|--|
| 23 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-487A0, SRT, "Vein of Abdomen") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12113 "Abdominal Veins (Lateral)" \$AnalysisPerformed = \$AnalysisPerformed |
| 24 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-487A0, SRT, "Vein of Abdomen") \$SectionLaterality = EV (G-A103, SRT, "Unilateral") \$Anatomy = DCID 12114 "Abdominal Veins (Unilateral)" \$AnalysisPerformed = \$AnalysisPerformed |
| 25 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-44000, SRT, "Pulmonary Artery Structure") \$SectionLaterality = EV (G-A103, SRT, "Unilateral") \$Anatomy = DCID 3829 "Pulmonary Arteries" \$AnalysisPerformed = \$AnalysisPerformed |
| 26 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-43000, SRT, "Coronary Artery Structure") \$Anatomy = DCID 3015 "Coronary Arteries" \$AnalysisPerformed = \$AnalysisPerformed |
| 27 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-48400, SRT, "Cardiac Vein Structure") \$Anatomy = DCID 3839 "Coronary Veins" \$AnalysisPerformed = \$AnalysisPerformed |
| 28 | > | CONTAINS | INCLUDE | DTID 3906 "Vascular Section Measurements" | 1-n | U | | \$VascularSection = DT (T-48581, SRT, "Pulmonary Venous Structure") \$Anatomy = DCID 3840 "Pulmonary Veins" \$AnalysisPerformed = \$AnalysisPerformed |

TID 3905 Calcium Scoring Results

Contains the calcium scoring results related to plaque findings, vessels or the whole body.

Type: Extensible
Order: Significant
Root: No

Table TID 3905. Calcium Scoring Results

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|-----------|---|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (111004, DCM, "Analysis Performed") | 1 | M | | EV (122603, DCM, "Calcium Scoring Analysis") |
| 3 | > | CONTAINS | NUM | EV (122657, DCM, "Agatston Score Threshold") | 1 | U | | UNITS = DT ([hnsfU], UCUM, "Hounsfield unit") |
| 4 | > | CONTAINS | NUM | EV (122658, DCM, "Calcium Mass Threshold") | 1 | U | | UNITS = DT (mg/cm3, UCUM, "mg/cm3") |
| 5 | > | CONTAINS | NUM | EV (122659, DCM, "Calcium Scoring Calibration") | 1 | U | | UNITS = DT (mg/[hnsfU].cm3, UCUM, "mg/[hnsfU].cm3") |
| 6 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (112058, DCM, "Calcium Score") \$Method = EV (112055, DCM, "Agatston Scoring Method") \$Units = DT (1, UCUM, "no units") |
| 7 | > | CONTAINS | NUM | EV (122660, DCM, "Calcium Volume") | 1 | U | | UNITS = EV (mm3, UCUM, "mm3") |
| 8 | > | CONTAINS | NUM | EV (122661, DCM, "Calcium Mass") | 1 | U | | UNITS = EV (mg, UCUM, "mg") |
| 9 | > | CONTAINS | NUM | EV (F-02A3B, SRT, "Number of Lesions") | 1 | U | | UNITS = DT ({lesions}, UCUM, "lesions") |
| 10 | > | CONTAINS | INCLUDE | DTID 3909 "Best Illustration of Findings" | 1-n | U | | |

TID 3906 Vascular Section Measurements

Sections of vascular measurements are section containers of an anatomical region consisting of measurement group containers containing the measurements.

Table TID 3906. Parameters

| Parameter Name | Parameter Usage |
|---------------------|--|
| \$VascularSection | The concept name of the region or structure of which the anatomy is part |
| \$SectionLaterality | The laterality (if any) of the anatomy in this section heading |
| \$Anatomy | The concept name of the vascular anatomy |
| \$AnalysisPerformed | The context of the measurements performed during the analysis |

Type: Extensible
Order: Significant
Root: No

Table TID 3906. Vascular Section Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|--|-----|----------|---|--|
| 1 | | CONTAINS | CONTAINER | \$VascularSection | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | MC | IFF \$SectionLaterality has a value | \$SectionLaterality |
| 3 | > | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1-n | M | | |
| 4 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | \$Anatomy |
| 5 | >> | CONTAINS | CODE | EV (122686, DCM, "Parent Vessel Finding") | 1-n | U | | DCID 3810 "Vascular Morphology" |
| 6 | >>> | | INCLUDE | DTID 1350 "Negation Modifier, Presence of Finding" | 1 | U | | |
| 7 | >> | CONTAINS | INCLUDE | DTID 3905 "Calcium Scoring Results" | 1 | UC | IF the value of \$AnalysisPerformed equals (122605, DCM, "Vascular Morphological Analysis") | |
| 8 | >> | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1-n | U | | |
| 9 | >>> | HAS CONCEPT MOD | CODE | EV (125101, DCM, "Vessel Branch") | 1-n | UC | IF concept value of row 4 is not equal to (T-43000, SRT, "Coronary Artery Structure") | DCID 12117 "Vessel Branch Modifiers" |
| 10 | >>> | HAS CONCEPT MOD | CODE | EV (G-A1F8, SRT, "Topographical Modifier") | 1 | UC | IF concept value of row 4 is not equal to (T-43000, SRT, "Coronary Artery Structure") | DCID 12116 "Vessel Segment Modifiers" |
| 11 | >>> | HAS CONCEPT MOD | CODE | EV (G-A1F8, SRT, "Topographical Modifier") | 1 | UC | IF concept value of row 4 equals (T-43000, SRT, "Coronary Artery Structure") | DCID 3019 "Cardiovascular Anatomic Location Modifiers" |
| 12 | >>> | CONTAINS | INCLUDE | DTID 3907 "Vessel Measurements" | 1 | U | | |
| 13 | >>> | CONTAINS | INCLUDE | DTID 3908 "Vascular Lesion" | 1-n | UC | IF the value of \$AnalysisPerformed equals (122605, DCM, "Vascular Morphological Analysis") | |
| 14 | >>> | CONTAINS | INCLUDE | DTID 3910 "Flow Quantification" | 1 | UC | IF the value of \$AnalysisPerformed equals (122606, DCM, "Vascular Functional Analysis") | |

Content Item Descriptions

| | |
|-------|--|
| Row 3 | This Findings container allows an application to group related vessels or branches |
|-------|--|

| | |
|-------|--|
| Row 5 | The characteristics associated with the parent vessel shall also be reported in the findings Container for the parent vessel. Negative findings (characteristics not present) need not be reported in the parent vessel Container. |
|-------|--|

TID 3907 Vessel Measurements

Contains measurements made on vessel level.

Type: Extensible
Order: Significant
Root: No

Table TID 3907. Vessel Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|------------------------------|
| 1 | | CONTAINS | NUM | EV (R-101BB, SRT, "Lumen Diameter Stenosis") | 1 | U | | UNITS = DT (% , UCUM, "%") |
| 2 | | CONTAINS | NUM | EV (R-101BA, SRT, "Lumen Area Stenosis") | 1 | U | | UNITS = DT (% , UCUM, "%") |
| 3 | | CONTAINS | NUM | EV (121206, DCM, "Distance") | 1-n | U | | UNITS = DT (mm, UCUM, "mm") |
| 4 | > | HAS CONCEPT MOD | CODE | EV (122340, DCM, "Fiducial Feature") | 2 | M | | |
| 5 | >> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 244 "Laterality" |
| 6 | > | | INCLUDE | DTID 320 "Image or Spatial Coordinates" | 1 | U | | |
| 7 | | CONTAINS | NUM | EV (G-0364, SRT, "Vessel Lumen Diameter") | 1-n | U | | UNITS = DT (mm, UCUM, "mm") |
| 8 | > | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | U | | DCID 3488 "Min/Max/Mean" |
| 9 | > | HAS PROPERTIES | NUM | EV (122337, DCM, "Relative Position") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 10 | >> | HAS CONCEPT MOD | CODE | EV (122340, DCM, "Fiducial Feature") | 1 | M | | DCID 3837 "Fiducial Feature" |

Content Item Descriptions

| | |
|-----------|--|
| Rows 3-5 | The distance between two identified fiducial features |
| Rows 7-10 | Measurement of vessel diameter made at a position relative to a fiducial feature |
| Row 9 | A positive value indicates a distance in the direction of flow within the vessel |

TID 3908 Vascular Lesion

Specifies properties and the features of a vascular lesion detected during the analysis. In addition it is possible to reference or include growing of lesions over time by adding references to previous reports or by adding previous examination results.

Type: Extensible
Order: Significant
Root: No

Table TID 3908. Vascular Lesion

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|--|--|
| 1 | | CONTAINS | CONTAINER | EV (F-03FCD, SRT, "Lesion Finding") | 1 | M | | |
| 2 | > | CONTAINS | TEXT | EV (121151, DCM, "Lesion Identifier") | 1 | M | | |
| 3 | > | CONTAINS | INCLUDE | DTID 3909 "Best Illustration of Findings" | 1-n | U | | |
| 4 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1-n | U | | |
| 5 | > | CONTAINS | NUM | EV (122337, DCM, "Relative Position") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 6 | >> | HAS CONCEPT MOD | CODE | EV (122340, DCM, "Fiducial Feature") | 1 | M | | DCID 3837 "Fiducial Feature" |
| 7 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (G-0364, SRT, "Vessel Lumen Diameter") \$Derivation = DCID 3838 "Diameter Derivation" \$FindingSite = DCID 3486 "Vascular Measurement Sites" \$Units = DT (mm, UCUM, "mm") |
| 8 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (G-0366, SRT, "Vessel Lumen Cross-Sectional Area") \$Derivation = DCID 3838 "Diameter Derivation" \$FindingSite = DCID 3486 "Vascular Measurement Sites" \$Units = DT (mm2, UCUM, "mm2") |
| 9 | > | CONTAINS | CODE | EV (G-C504, SRT, "Associated Morphology") | 1-n | M | | DCID 3810 "Vascular Morphology" |
| 10 | >> | | INCLUDE | DTID 3909 "Best Illustration of Findings" | 1-n | U | | |
| 11 | >> | HAS PROPERTIES | TEXT | EV (121106, DCM, "Comment") | 1-n | U | | |
| 12 | >> | | INCLUDE | DTID 3911 "Plaque Properties" | 1 | MC | IFF value of row 9 equals (M-01470, SRT, "Plaque") | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|----|----------|--|--------------------------------------|
| 13 | >> | | INCLUDE | DTID 3912 "Stenosis Properties" | 1 | MC | IFF value of row 9 equals (M-3400A, SRT, "Stenosis") | |
| 14 | >> | | INCLUDE | DTID 3913 "Aneurysm Properties" | 1 | MC | IFF value of row 9 equals (M-32200, SRT, "Aneurysm") | |
| 15 | >> | | INCLUDE | DTID 3914 "Arterial Dissection Properties" | 1 | MC | IFF value of row 9 equals (D3-81310, SRT, "Arterial Dissection") | |
| 16 | >> | HAS PROPERTIES | CODE | EV (G-C504, SRT, "Associated Morphology") | 1 | MC | IFF value of row 9 equals (M-520F8, SRT, "Vascular Sclerosis") | DCID 3817 "Vascular Sclerosis Types" |
| 17 | >> | | INCLUDE | DTID 3915 "Vascular Occlusion Properties" | 1 | MC | IFF value of row 9 equals EV (M-34000, SRT, "Occlusion") | |
| 18 | >> | | INCLUDE | DTID 3916 "Stent Properties" | 1 | MC | IFF value of row 9 equals (A-25500, SRT, "Stent") | |

Content Item Descriptions

| | |
|----------|---|
| Row 5 | A positive value indicates a distance in the direction of flow within the vessel For example: An aneurysm with relative position -4 mm from the renal arteries would begin superior to the renal arteries. |
| Row 7, 8 | These rows are associated with the position of the most significant effect of the lesion, i.e., maximum diameter of aneurysm or the minimum diameter of stenosis |

TID 3909 Best Illustration of Findings

Specification of images, waveforms, spatial and temporal coordinates used to illustrate findings.

Type: Extensible
Order: Significant
Root: No

Table TID 3909. Best Illustration of Findings

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|----------|--|----|----------|-----------|----------------------|
| 1 | | CONTAINS | IMAGE | EV (121080, DCM, "Best illustration of finding") | 1 | U | | |
| 2 | | CONTAINS | WAVEFORM | EV (121080, DCM, "Best illustration of finding") | 1 | U | | |
| 3 | | CONTAINS | SCOORD | EV (121080, DCM, "Best illustration of finding") | 1 | U | | |
| 4 | > | SELECTED FROM | IMAGE | no purpose of reference | 1 | M | | |
| 5 | | CONTAINS | TCOORD | EV (121080, DCM, "Best illustration of finding") | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|----------|-------------------------|----|----------|--------------|-----------------------------|
| 6 | > | SELECTED FROM | SCCOORD | no purpose of reference | 1 | MC | XOR row 8, 9 | |
| 7 | >> | SELECTED FROM | IMAGE | no purpose of reference | 1 | M | | must be a multi-frame image |
| 8 | > | SELECTED FROM | WAVEFORM | no purpose of reference | 1 | MC | XOR row 6, 9 | |
| 9 | > | SELECTED FROM | IMAGE | no purpose of reference | 1 | MC | XOR row 6, 8 | must be a multi-frame image |

TID 3910 Flow Quantification

Contains the flow quantification measurement results

Type: Extensible
Order: Significant
Root: No

Table TID 3910. Flow Quantification

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|---|
| 1 | | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111004, DCM, "Analysis Performed") | 1 | M | | EV (122604, DCM, "Flow Quantification") |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 3929 "Cardiovascular Analysis Observation Context" | 1 | U | | |
| 4 | > | HAS OBS CONTEXT | DATETIME | EV (G-D321, SRT, "Start DateTime") | 1 | M | | |
| 5 | > | HAS OBS CONTEXT | DATETIME | EV (G-D320, SRT, "Stop DateTime") | 1 | M | | |
| 6 | > | CONTAINS | INCLUDE | DTID 3990 "Two Dimensional Measurement Graph" | 1 | U | | \$MeasurementGraph = EV (122667, DCM, "Blood velocity vs. time of cardiac cycle") \$X-Concept = EV (122666, DCM, "Time relative to R-wave peak") \$Y-Concept = EV (F-0319E, SRT, "Arterial Velocity") \$X-AxisUnits = DT (ms, UCUM, "ms") \$Y-AxisUnits = DT (cm/s, UCUM, "cm/s") |
| 7 | > | CONTAINS | NUM | EV (122642, DCM, "Velocity Encoding Minimum Value") | 1 | U | | UNITS = DT (cm/s, UCUM, "cm/s") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|------------|---|
| 8 | > | CONTAINS | NUM | EV (122643, DCM, "Velocity Encoding Maximum Value") | 1 | U | | UNITS = DT (cm/s, UCUM, "cm/s") |
| 9 | > | CONTAINS | CONTAINER | EV (125007, DCM, "Measurement Group") | 1-n | M | | |
| 10 | >> | HAS CONCEPT MOD | TEXT | EV (G-C0E3, SRT, "Finding Site") | 1 | MC | XOR row 11 | |
| 11 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | MC | XOR row 10 | |
| 12 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122207, DCM, "Blood velocity, peak") \$Units = DT (cm/s, UCUM, "cm/s") |
| 13 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122205, DCM, "Blood velocity, mean") \$Units = DT (cm/s, UCUM, "cm/s") |
| 14 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-39200, SRT, "Blood Flow") \$Derivation = EV (R-00317, SRT, "Mean") \$Units = DT (ml/s, UCUM, "ml/s") |
| 15 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-2 | U | | \$Measurement = EV (F-39200, SRT, "Blood Flow") \$ModType = EV (G-C048, SRT, "Direction of flow") \$ModValue = DCID 12221 "Flow Direction" \$Units = DT (ml/s, UCUM, "ml/s") |
| 16 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122645, DCM, "Net Forward Volume") \$Units = DT (ml, UCUM, "ml") |
| 17 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122645, DCM, "Net Forward Volume") \$ModType = EV (121425, DCM, "Index") \$ModValue = DT (8277-6, LN, "BSA") \$Units = DT (ml/m2, UCUM, "ml/m2") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---------------------------|-----|----------|-----------|--|
| 18 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (G-0366, SRT, "Vessel Lumen Cross-Sectional Area") \$Derivation = DCID 3488 "Min/Max/Mean" \$Units = DT (mm2, UCUM, "mm2") |

TID 3911 Plaque Properties

Properties of a plaque finding

Type: Extensible
Order: Significant
Root: No

Table TID 3911. Plaque Properties

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|--|
| 1 | | HAS PROPERTIES | NUM | EV (122376, DCM, "Total Plaque Volume") | 1 | U | | UNITS = DT (mm3, UCUM, "mm3") |
| 2 | | HAS PROPERTIES | CODE | EV (G-A428, SRT, "Margin") | 1 | U | | DCID 3715 "Lesion Margin" |
| 3 | | HAS PROPERTIES | CODE | EV (M-01000, SRT, "Morphological Abnormal Structure") | 1-n | M | | DCID 3802 "Plaque Structures" |
| 4 | | HAS PROPERTIES | INCLUDE | DTID 3905 "Calcium Scoring Results" | 1 | U | | |
| 5 | | HAS PROPERTIES | CODE | EV (121071, DCM, "Finding") | 1 | U | | DT (R-102DA, SRT, "Contrast Media Seen in Plaque") |

TID 3912 Stenosis Properties

Properties of a stenosis finding

Type: Extensible
Order: Significant
Root: No

Table TID 3912. Stenosis Properties

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|----|----------|-----------|--|
| 1 | | HAS PROPERTIES | CODE | EV (G-C036, SRT, "Measurement method") | 1 | M | | DCID 3804 "Stenosis Measurement Methods" |
| 2 | | HAS PROPERTIES | CODE | EV (G-D775, SRT, "Type of Stenosis") | 1 | U | | DCID 3805 "Stenosis Types" |
| 3 | | HAS PROPERTIES | CODE | EV (G-C002, SRT, "Associated with") | 1 | U | | DCID 3815 "Source of Vascular Finding" |
| 4 | | HAS PROPERTIES | CODE | EV (G-C2FE, SRT, "Shape") | 1 | U | | DCID 3806 "Stenosis Shape" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|---|
| 5 | | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (G-0364, SRT, "Vessel Lumen Diameter") \$Derivation = DCID 3488 "Min/Max/Mean" \$Units = DT (mm, UCUM, "mm") |
| 6 | | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (G-0366, SRT, "Vessel Lumen Cross-Sectional Area") \$Derivation = DCID 3488 "Min/Max/Mean" \$Units = DT (mm2, UCUM, "mm2") |
| 7 | | HAS PROPERTIES | NUM | EV (R-101BC, SRT, "Stenotic Lesion Length") | 1 | U | | UNITS = DT (mm, UCUM, "mm") |
| 8 | | HAS PROPERTIES | CODE | EV (R-101BC, SRT, "Stenotic Lesion Length") | 1 | U | | DCID 3831 "Stenosis Length" |
| 9 | | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (R-101BA, SRT, "Lumen Area Stenosis") \$Derivation = DCID 3488 "Min/Max/Mean" \$Units = DT (% , UCUM, "%") |
| 10 | | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (R-101BB, SRT, "Lumen Diameter stenosis") \$Derivation = DCID 3488 "Min/Max/Mean" \$Units = DT (% , UCUM, "%") |
| 11 | | HAS PROPERTIES | CODE | EV (R-101BA, SRT, "Lumen Area Stenosis") | 1-n | U | | DCID 3832 "Stenosis Grade" |
| 12 | > | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | M | | DCID 3488 "Min/Max/Mean" |
| 13 | | HAS PROPERTIES | CODE | EV (R-101BB, SRT, "Lumen Diameter Stenosis") | 1-n | U | | DCID 3832 "Stenosis Grade" |
| 14 | > | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | M | | DCID 3488 "Min/Max/Mean" |

TID 3913 Aneurysm Properties

Properties of an aneurysm finding

Type: Extensible
Order: Significant
Root: No

Table TID 3913. Aneurysm Properties

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|--|--|
| 1 | | HAS PROPERTIES | CODE | EV (G-C504, SRT, "Associated Morphology") | 1-n | M | | DCID 3808 "Aneurysm Types" |
| 2 | | HAS PROPERTIES | CODE | EV (G-C002, SRT, "Associated with") | 1 | U | | DCID 3815 "Source of Vascular Finding" |
| 3 | | HAS PROPERTIES | INCLUDE | DTID 3917 "Aneurysm Measurements" | 1 | U | | |
| 4 | | HAS PROPERTIES | CODE | EV (G-C504, SRT, "Associated Morphology") | 1-n | UC | IFF value of row 1 equals (M-32240, SRT, "Mixed Aneurysm") | DCID 3808 "Aneurysm Types" |
| 5 | > | HAS PROPERTIES | INCLUDE | DTID 3917 "Aneurysm Measurements" | 1 | U | | |

TID 3914 Arterial Dissection Properties

Properties of a arterial dissection finding

Type: Extensible
Order: Significant
Root: No

Table TID 3914. Arterial Dissection Properties

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|-----|----------|-----------|---|
| 1 | | HAS PROPERTIES | CODE | EV (122387, DCM, "Dissection Classification") | 1 | M | | DCID 3492 "Vascular Dissection Classifications" |
| 2 | | HAS PROPERTIES | CODE | EV (G-C150, SRT, "Etiology") | 1 | U | | DCID 3809 "Associated Conditions" |
| 3 | | HAS PROPERTIES | NUM | EV (G-D7FE, SRT, "Length") | 1 | U | | UNITS = DT (mm, UCUM, "mm") |
| 4 | | HAS PROPERTIES | CODE | EV (R-102DD, SRT, "Anatomic structure potentially involved in evolution of disease") | 1-n | U | | DCID 3827 "Vessel Segments" |

TID 3915 Vascular Occlusion Properties

Properties of vascular occlusion finding

Type: Extensible
Order: Significant
Root: No

Table TID 3915. Vascular Occlusion Properties

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--------------------------------------|----|----------|-----------|----------------------------|
| 1 | | HAS PROPERTIES | CODE | EV (G-D775, SRT, "Type of Stenosis") | 1 | M | | DCID 3805 "Stenosis Types" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|-------------------------------------|----|----------|-----------|---|
| 2 | | HAS PROPERTIES | CODE | EV (G-C002, SRT, "Associated with") | 1 | U | | DCID 3815 "Source of Vascular Finding" |
| 3 | | HAS PROPERTIES | CODE | EV (G-C2FE, SRT, "Shape") | 1 | U | | DCID 3806 "Stenosis Shape" |
| 4 | | HAS PROPERTIES | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (R-101BC, SRT, "Stenotic Lesion Length") \$Method = DCID 3804 "Stenosis Measurement Methods" \$Units = DT (mm, UCUM, "mm") |

TID 3916 Stent Properties

Properties of a stent finding

Type: Extensible
Order: Significant
Root: No

Table TID 3916. Stent Properties

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|--|-------------------------------|
| 1 | | HAS PROPERTIES | CODE | EV (122685, DCM, "Stent Composition") | 1-n | M | | DCID 3814 "Stent Composition" |
| 2 | | HAS PROPERTIES | NUM | EV (R-101AD, SRT, "Vascular Stent Diameter") | 1 | U | | UNITS = DT (mm, UCUM, "mm") |
| 3 | | HAS PROPERTIES | NUM | EV (R-101B0, SRT, "Vascular Stent Length") | 1 | U | | UNITS = DT (mm, UCUM, "mm") |
| 4 | | HAS PROPERTIES | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 3813 "Stent Findings" |
| 5 | > | | INCLUDE | DTID 3912 "Stenosis Properties" | 1 | MC | IFF value of row 4 equals (M-3400A, SRT, "Stenosis") | |

TID 3917 Aneurysm Measurements

Measurements of aneurysms. TID 300 "Measurement" invoked from this Template allows the measurement to reference an image used as the source of the measurement.

Type: Extensible
Order: Significant
Root: No

Table TID 3917. Aneurysm Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|------------------------|----|----------|-----------|--|
| 1 | | | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (G-D7FE, SRT, "Length") \$ModType = EV (G-C093, SRT, "Extent") \$ModValue = DT (G-A143, SRT, "Longitudinal") \$Units = DT (mm, UCUM, "mm") |
| 2 | | | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (G-D705, SRT, "Volume") \$Method = DCID 3807 "Volume Measurement Methods" \$Units = DT (mm3, UCUM, "mm3") |
| 3 | | | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (R-102DB, SRT, "Vessel Lumen Cross-Sectional Area Increase") \$Units = DT (% , UCUM, "%") |
| 4 | | | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (R-102DB, SRT, "Vessel Lumen Cross-Sectional Area Increase") \$Units = DT (mm2, UCUM, "mm2") |
| 5 | | | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (R-102DC, SRT, "Vessel Lumen Cross-Sectional Diameter Increase") \$Units = DT (% , UCUM, "%") |
| 6 | | | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (R-102DC, SRT, "Vessel Lumen Cross-Sectional Diameter Increase") \$Units = DT (mm, UCUM, "mm") |

TID 3920 Ventricular Analysis

Contains the ventricular functional measurement results.

Type: Extensible
Order: Significant
Root: No

Table TID 3920. Ventricular Analysis

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|---|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111004, DCM, "Analysis Performed") | 1 | M | | EV (122601, DCM, "Ventricular Analysis") |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 3929 "Cardiovascular Analysis Observation Context" | 1 | U | | |
| 4 | > | CONTAINS | INCLUDE | DTID 3921 "Ventricular Measurements" | 1-n | U | | \$Ventricle = EV (T-32600, SRT, "Left Ventricle") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|--|
| 5 | > | CONTAINS | INCLUDE | DTID 3921 "Ventricular Measurements" | 1-n | U | | \$Ventricle = EV (T-32500, SRT, "Right Ventricle") |
| 6 | > | CONTAINS | INCLUDE | DTID 3925 "Ventricular Thickening Analysis" | 1-n | U | | |
| 7 | > | CONTAINS | INCLUDE | DTID 3926 "Myocardial Perfusion Analysis" | 1-n | U | | |

TID 3921 Ventricular Measurements

Ventricular measurement results related to the volume of a ventricle.

Table TID 3921. Parameters

| Parameter Name | Parameter Usage |
|----------------|--|
| \$Ventricle | Describes if either the left or the right ventricle was examined |

Type: Extensible
Order: Significant
Root: No

Table TID 3921. Ventricular Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | \$Ventricle |
| 3 | > | CONTAINS | INCLUDE | DTID 3922 "Absolute Values of Ventricular Measurements" | 1 | M | | |
| 4 | > | CONTAINS | INCLUDE | DTID 3923 "BSA-Normalized Ventricular Measurements" | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 3924 "Heart Rate-Normalized Ventricular Measurements" | 1 | U | | |

TID 3922 Absolute Values of Ventricular Measurements

Ventricular measurement results related to the absolute volume of a ventricle.

Type: Extensible
Order: Significant
Root: No

Table TID 3922. Absolute Values of Ventricular Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|----------------------|
| 1 | | CONTAINS | CONTAINER | EV (122608, DCM, "Absolute Values Of Ventricular Measurements") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|-----------|---|
| 2 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3833 "Cardiac Ejection Fraction" \$ModType = DT (122670, DCM, "Papillary Muscle Included/Excluded") \$ModValue = DCID 3821 "Papillary Muscle Included/Excluded" \$Method = DCID 3807 "Volume Measurement Methods" \$Units = DT (% , UCUM, "%") |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3835 "Cardiac Volume Measurements" \$ModType = DT (122670, DCM, "Papillary Muscle Included/Excluded") \$ModValue = DCID 3821 "Papillary Muscle Included/Excluded" \$Units = DT (ml, UCUM, "ml") |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32100, SRT, "Cardiac Output") \$ModType = DT (122670, DCM, "Papillary Muscle Included/Excluded") \$ModValue = DCID 3821 "Papillary Muscle Included/Excluded" \$Units = DT (l/min, UCUM, "l/min") |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (122447, DCM, "Wall Mass") \$ModType = DT (122670, DCM, "Papillary Muscle Included/Excluded") \$ModValue = DCID 3821 "Papillary Muscle Included/Excluded" \$Units = DT (g, UCUM, "g") |
| 6 | >> | HAS CONCEPT MOD | CODE | EV (R-4089A, SRT, "Cardiac Cycle Point") | 1 | U | | DCID 12233 "Cardiac Phase" |
| 7 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122616, DCM, "Peak Ejection Rate") \$Units = DT (ml/s, UCUM, "ml/s") |
| 8 | > | CONTAINS | NUM | EV (122617, DCM, "Peak Ejection Time") | 1 | U | | UNITS = EV (s, UCUM, "s") |
| 9 | >> | HAS CONCEPT MOD | CODE | EV (122611, DCM, "Reference Point") | 1 | M | | EV (R-FAB5C, SRT, "End-Diastolic") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------------|---------|---------------------------------------|----|----------|-----------|--|
| 10 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122618, DCM, "Peak Filling Rate") \$Units = DT (ml/s, UCUM, "ml/s") |
| 11 | > | CONTAINS | NUM | EV (122619, DCM, "Peak Filling Time") | 1 | U | | UNITS = DT (s, UCUM, "s") |
| 12 | >> | HAS CONCEPT MOD | CODE | EV (122611, DCM, "Reference Point") | 1 | M | | DT (109070, DCM, "End-Systolic") |

TID 3923 BSA-Normalized Ventricular Measurements

Ventricular measurement results normalized based on the Body Surface Area

Type: Extensible
Order: Significant
Root: No

Table TID 3923. BSA-Normalized Ventricular Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------------|-----------|---|-----|----------|-----------|--|
| 1 | | CONTAINS | CONTAINER | EV (122609, DCM, "Normalized values of ventricular measurements") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121425, DCM, "Index") | 1 | M | | DT (8277-6, LN, "Body Surface Area") |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (8277-6, LN, "Body Surface Area") \$Unit = DT (m2, UCUM, "m2") |
| 4 | >> | INFERRED FROM | CODE | EV (8278-4, LN, "Body Surface Area Formula") | 1 | U | | BCID 3663 "Body Surface Area Equations" |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3835 "Cardiac Volume Measurements" \$ModType = EV (121425, DCM, "Index") \$ModValue = DT (8277-6, LN, "Body Surface Area") \$Units = DT (ml/m2, UCUM, "ml/m2") |
| 6 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32110, SRT, "Cardiac Index") \$Units = DT (ml/min/m2, UCUM, "(ml/min) /m2") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------------|---------|--|-----|----------|-----------|--|
| 7 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-2 | U | | \$Measurement = EV (122447, DCM, "Wall Mass") \$ModType = EV (121425, DCM, "Index") \$ModValue = DT (8277-6, LN, "Body Surface Area") \$Units = DT (g/m2, UCUM, "g/m2") |
| 8 | >> | HAS CONCEPT MOD | CODE | DT (122670, DCM, "Papillary Muscle Included/Excluded") | 1 | U | | DCID 3821 "Papillary Muscle Included/Excluded" |
| 9 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122618, DCM, "Peak Filling Rate") \$ModType = EV (121425, DCM, "Index") \$ModValue = DT (8277-6, LN, "Body Surface Area") \$Units = DT (ml/s/m2, UCUM, "(ml/s)/m2") |
| 10 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32070, SRT, "Peak Cardiac Ejection Fraction") \$ModType = EV (121425, DCM, "Index") \$ModValue = DT (8277-6, LN, "Body Surface Area") \$Units = DT (%/m2, UCUM, "%/m2") |

TID 3924 Heart Rate-Normalized Ventricular Measurements

Ventricular measurement results normalized based on the Heart Rate

Type: Extensible
Order: Significant
Root: No

Table TID 3924. Heart Rate-Normalized Ventricular Measurements

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------------|-----------|---|----|----------|-----------|-------------------------------|
| 1 | | CONTAINS | CONTAINER | EV (122609, DCM, "Normalized values of ventricular measurements") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121425, DCM, "Index") | 1 | M | | DT (8867-4, LN, "Heart Rate") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---------------------------|-----|----------|-----------|--|
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3835 "Cardiac Volume Measurements" \$ModType = EV (121425, DCM, "Index") \$ModValue = DT (8867-4, LN, "Heart Rate") \$Units = DT (ml/{H.B.}/min, UCUM, "ml/BPM") |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32100, SRT, "Cardiac Output") \$ModType = EV (121425, DCM, "Index") \$ModValue = DT (8867-4, LN, "Heart Rate") \$Units = DT (ml/min/{H.B.}/min, UCUM, "(ml/min) /BPM") |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122618, DCM, "Peak Filling Rate") \$ModType = EV (121425, DCM, "Index") \$ModValue = DT (8867-4, LN, "Heart Rate") \$Units = DT (ml/s/{H.B.}/min, UCUM, "(ml/s) /BPM") |
| 6 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (F-32070, SRT, "Peak Cardiac Ejection Fraction") \$ModType = EV (121425, DCM, "Index") \$ModValue = DT (8867-4, LN, "Heart Rate") \$Units = DT (%/{H.B.}/min, UCUM, "%/BPM") |

TID 3925 Ventricular Thickening Analysis

Data of a ventricular wall thickening analysis

Type: Extensible
Order: Significant
Root: No

Table TID 3925. Thickening Analysis

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------|----|----------|-----------|----------------------|
| 1 | | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|-----------|--|
| 2 | > | HAS CONCEPT MOD | CODE | EV (111004, DCM, "Analysis Performed") | 1 | M | | EV (122607, DCM, "Thickening Analysis") |
| 3 | > | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1-n | M | | |
| 4 | >> | CONTAINS | CODE | EV (G-C0E3, SRT, "Finding Site") | 1-n | MC | XOR row 5 | DCID 3717 "Myocardial Wall Segments" |
| 5 | >> | CONTAINS | TEXT | EV (G-C0E3, SRT, "Finding Site") | 1 | MC | XOR row 4 | |
| 6 | >> | CONTAINS | INCLUDE | DTID 3909 "Best Illustration of Findings" | 1-n | U | | |
| 7 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (122445, DCM, "Wall Thickness") \$ModType = EV (R-4089A, SRT, "Cardiac Cycle Point") \$ModValue = DT (R-FAB5C, SRT, "End-Diastolic") \$Units = DT (mm, UCUM, "mm") |
| 8 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = EV (122445, DCM, "Wall Thickness") \$ModType = EV (R-4089A, SRT, "Cardiac Cycle Point") \$ModValue = DT (109070, DCM, "End-Systolic") \$Units = DT (mm, UCUM, "mm") |
| 9 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (122624, DCM, "Wall Thickness Ratio end-systolic to end-diastolic") \$Units = DT (% , UCUM, "%") |
| 10 | >> | CONTAINS | CODE | EV (F-32050, SRT, "Cardiac Wall Motion") | 1 | U | | DCID 3703 "Wall Motion" |
| 11 | >> | CONTAINS | CODE | EV (G-C504, SRT, "Associated Morphology") | 1 | U | | DCID 3704 "Myocardium Wall Morphology Findings" |

TID 3926 Myocardial Perfusion Analysis

Myocardial perfusion analysis results.

Perfusion measurements may be performed either for one or more ventricular segments (row 4) or for substructures inside ventricular segments (row 14)

Type: Extensible
Order: Significant
Root: No

Table TID 3926. Myocardial Perfusion Analysis

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111004, DCM, "Analysis Performed") | 1 | M | | EV (122602, DCM, "Myocardial Perfusion Analysis") |
| 3 | > | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1-n | M | | |
| 4 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1-n | MC | XOR row 6 | DCID 3717 "Myocardial Wall Segments" |
| 5 | >>> | HAS CONCEPT MOD | CODE | EV (G-A1F8, SRT, "Topographical Modifier") | 1 | U | | DCID 3843 "Myocardial Subsegment" |
| 6 | >> | HAS CONCEPT MOD | TEXT | EV (G-C0E3, SRT, "Finding Site") | 1 | MC | XOR row 4 | |
| 7 | >> | HAS ACQ CONTEXT | CODE | EV (109054, DCM, "Patient State") | 1 | U | | DCID 3101 "Cardiac Procedural State Values" |
| 8 | >> | HAS ACQ CONTEXT | INCLUDE | DTID 3106 "Drugs/Contrast Administered" | 1-n | U | | |
| 9 | >> | CONTAINS | TEXT | EV (122627, DCM, "Curve Fit Method") | 1 | U | | |
| 10 | >> | CONTAINS | INCLUDE | DTID 3909 "Best Illustration of Findings" | 1-n | U | | |
| 11 | >> | CONTAINS | TEXT | EV (122628, DCM, "Baseline Result Correction") | 1 | U | | |
| 12 | >> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3836 "Time-based Perfusion Measurements" \$Units = EV (s, UCUM, "s") |
| 13 | >> | CONTAINS | NUM | EV (122640, DCM, "Image Interval") | 1 | U | | UNITS = EV (ms, UCUM, "ms") |
| 14 | >> | CONTAINS | NUM | EV (122635, DCM, "MR Perfusion Peak") | 1 | U | | UNITS = DT (1, UCUM, "No units") |
| 15 | >> | CONTAINS | NUM | EV (122636, DCM, "MR Perfusion Slope") | 1 | U | | UNITS = DT (1, UCUM, "No units") |
| 16 | >> | CONTAINS | NUM | EV (122637, DCM, "MR Perfusion Time Integral") | 1 | U | | UNITS = DT (1, UCUM, "No units") |
| 17 | >> | CONTAINS | CONTAINER | EV (125007, DCM, "Measurement Group") | 1-n | U | | |
| 18 | >>> | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 3836 "Time-based Perfusion Measurements" \$Units = EV (s, UCUM, "s") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|------|---|----|----------|-----------|----------------------------------|
| 19 | >>> | CONTAINS | NUM | EV (122635, DCM, "MR Perfusion Peak") | 1 | U | | UNITS = DT (1, UCUM, "No units") |
| 20 | >>> | CONTAINS | NUM | EV (122636, DCM, "MR Perfusion Slope") | 1 | U | | UNITS = DT (1, UCUM, "No units") |
| 21 | >>> | CONTAINS | NUM | EV (122637, DCM, "MR Perfusion Time Integral") | 1 | U | | UNITS = DT (1, UCUM, "No units") |
| 22 | >> | CONTAINS | CODE | EV (122664, DCM, "Late Contrast Enhancement") | 1 | U | | DCID 230 "Yes-No" |
| 23 | >>> | HAS ACQ CONTEXT | NUM | EV (122665, DCM, "Time after start of injection of contrast bolus") | 1 | M | | UNITS = DT (s, UCUM, "s") |
| 24 | >>> | HAS ACQ CONTEXT | NUM | EV (122668, DCM, "Time interval since detection of contrast bolus") | 1 | U | | UNITS = DT (s, UCUM, "s") |

Content Item Descriptions

| | |
|--------|---|
| Row 12 | Image Interval is appropriate only for equally time-spaced images |
|--------|---|

TID 3927 Report Summary

Contains summary elements based on the findings of the report

Type: Extensible
Order: Non-Significant
Root: No

Table TID 3927. Report Summary

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|----------------------|
| 1 | | | CONTAINER | BCID 7001 "Diagnostic Imaging Report Headings" | 1 | M | | |
| 2 | > | CONTAINS | CODE | BCID 7002 "Diagnostic Imaging Report Elements" | 1-n | U | | |
| 3 | >> | | INCLUDE | DTID 320 "Image or Spatial Coordinates" | 1-n | U | | |
| 4 | >> | | INCLUDE | DTID 321 "Waveform or Temporal Coordinates" | 1-n | U | | |
| 5 | > | CONTAINS | TEXT | BCID 7002 "Diagnostic Imaging Report Elements" | 1-n | U | | |
| 6 | >> | | INCLUDE | DTID 320 "Image or Spatial Coordinates" | 1-n | U | | |
| 7 | >> | | INCLUDE | DTID 321 "Waveform or Temporal Coordinates" | 1-n | U | | |

TID 3929 Cardiovascular Analysis Observation Context

Defines the observation context for cardiovascular Functional Analysis

Type: Extensible
Order: Significant
Root: No

Table TID 3929. Cardiovascular Analysis Observation Context

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|--------------------------------------|
| 1 | | HAS OBS CONTEXT | NUM | EV (8867-4, LN, "Heart Rate") | 1 | U | | UNITS = DT ({H.B.}/min, UCUM, "BPM") |
| 2 | | HAS OBS CONTEXT | CODE | EV (8884-9, LN, "Cardiac Rhythm") | 1 | U | | DCID 3826 "Heart Rhythm" |
| 3 | | HAS OBS CONTEXT | NUM | EV (F-008EC, SRT, "Systolic Blood Pressure") | 1 | U | | UNITS = DT (mm[Hg], UCUM, "mmHg") |
| 4 | | HAS OBS CONTEXT | NUM | EV (F-008ED, SRT, "Diastolic Blood Pressure") | 1 | U | | UNITS = DT (mm[Hg], UCUM, "mmHg") |
| 5 | | HAS OBS CONTEXT | CODE | EV (F-043E6, SRT, "Respiration Observable") | 1 | U | | DCID 3823 "Respiratory Status" |
| 6 | | HAS ACQ CONTEXT | INCLUDE | DTID 3106 "Drugs/Contrast Administered" | 1-n | U | | |

TID 3990 Two Dimensional Measurement Graph

Generic Template representing arbitrary two-dimensional graphs.

Table TID 3990. Parameters

| Parameter Name | Parameter Usage |
|--------------------|------------------------------------|
| \$MeasurementGraph | Describes what the graph is about |
| \$X-Concept | Concept of the X-Axis of the graph |
| \$Y-Concept | Concept of the Y-Axis of the graph |
| \$X-AxisUnit | Unit of the x-axis data elements |
| \$Y-AxisUnit | Unit of the y-axis data elements |

Type: Extensible
Order: Significant
Root: No

Table TID 3990. Two Dimensional Measurement Graph

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-------------------------------|-----|----------|-------------------------------|----------------------|
| 1 | | | CONTAINER | \$MeasurementGraph | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (122698, DCM, "X-Concept") | 1 | M | | \$X-Concept |
| 3 | > | CONTAINS | CODE | EV (122699, DCM, "Y-Concept") | 1 | M | | \$Y-Concept |
| 4 | > | CONTAINS | CONTAINER | no concept name | 1-n | MC | IF Row 7, 8, or 9 not present | |
| 5 | >> | CONTAINS | NUM | \$X-Concept | 1 | M | | UNITS = \$X-AxisUnit |
| 6 | >> | CONTAINS | NUM | \$Y-Concept | 1 | M | | UNITS = \$Y-AxisUnit |
| 7 | > | CONTAINS | IMAGE | \$MeasurementGraph | 1 | U | | |
| 8 | > | CONTAINS | WAVEFORM | \$MeasurementGraph | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------|----|----------|-----------|----------------------|
| 9 | > | CONTAINS | COMPOSITE | \$MeasurementGraph | 1 | U | | |

Content Item Descriptions

| | |
|----------|---|
| Rows 5-6 | The X-Concept values shall be monotonically increasing. |
| Row 7 | Secondary Capture Image containing a bitmap representation of the graph |
| Row 8 | Waveform containing a representation of the graph |
| Row 9 | Composite Object containing a rendered representation of the graph |

Mammography CAD SR IOD Templates

The Templates that comprise the Mammography CAD SR IOD are interconnected as in Figure A-8:

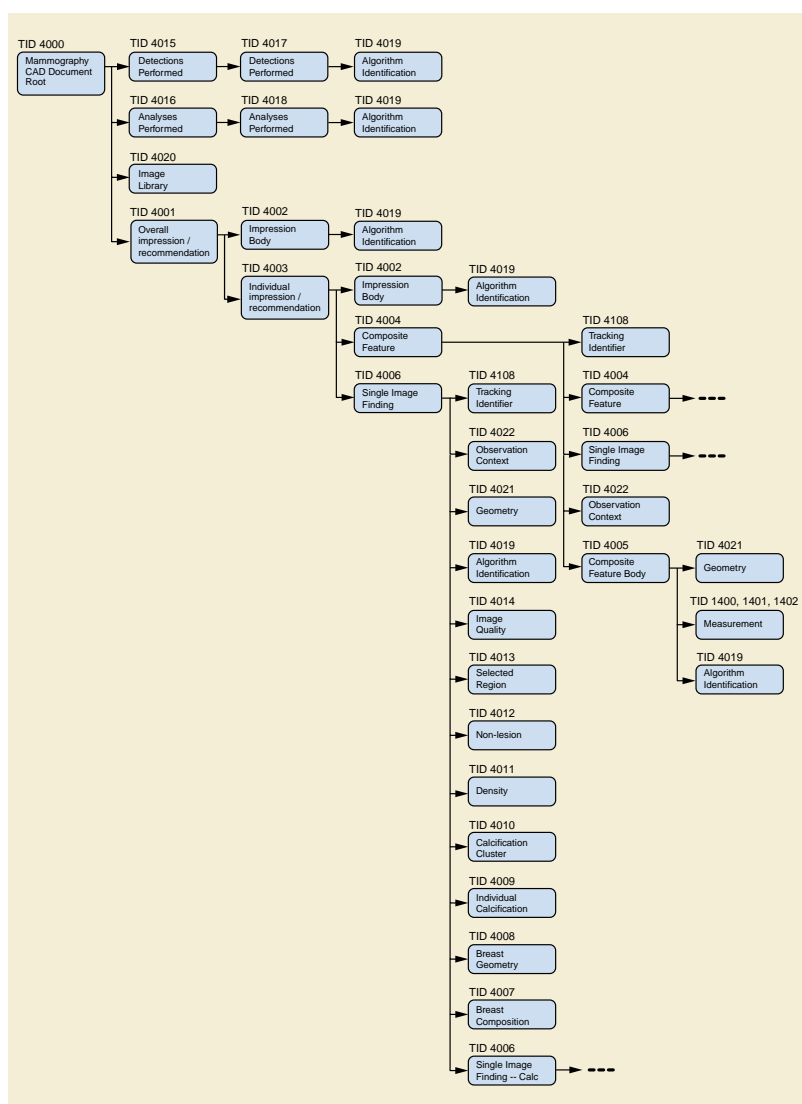


Figure A-8. Mammography CAD SR IOD Template Structure

In Figure A-8, '...' indicates possible recursive application of subordinate Templates.

TID 4000 Mammography CAD Document Root

This Template forms the top of a content tree that allows a mammography CAD device to describe the results of detection and analysis of Mammographic evidence. This Template, together with its subordinate Templates, describes both the results for presentation to radiologists and partial product results for consumption by mammography CAD devices in subsequent mammography CAD reports.

This Template defines a Container that contains an Image Library, the mammography CAD results, and summaries of the detection and analysis algorithms performed. The Image Library contains the Image SOP Class and Instance UIDs, and selected attributes for each image referenced in either the algorithm summaries or mammography CAD results.

The Summary of Detections and Summary of Analyses sub-trees gather lists of algorithms attempted, grouped by success/failure status. Algorithms not attempted are not mentioned in these sub-trees. This information forms the basis for understanding why a mammography CAD report may produce no (or fewer than anticipated) results. Mammography CAD results are constructed bottom-up, starting from Single Image Findings (see TID 4006 "Mammography CAD Single Image Finding"), associated as Composite Features (see TID 4004 "Mammography CAD Composite Feature"), and from which Individual and Overall Impressions are formed.

See Figure E.1-1 "Top Levels of Mammography CAD SR Content Tree" in PS3.17.

Type: Non-Extensible
Order: Significant
Root: Yes

Table TID 4000. Mammography CAD Document Root

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|---|--|
| 1 | | | CONTAINER | EV (111036, DCM, "Mammography CAD Report") | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | CONTAINS | CONTAINER | EV (111028, DCM, "Image Library") | 1 | M | | |
| 4 | >> | CONTAINS | INCLUDE | DTID 4020 "CAD Image Library Entry" | 1-n | M | | \$ImageLaterality = DCID 6022 "Side" \$ImageView = DCID 4014 "View for Mammography" \$ImageViewMod = DCID 4015 "View Modifier for Mammography" |
| 5 | > | CONTAINS | INCLUDE | DTID 4001 "Mammography CAD Overall Impression/Recommendation" | 1 | M | | |
| 6 | > | CONTAINS | CODE | EV (111064, DCM, "Summary of Detections") | 1 | M | | DCID 6042 "Status of Results" |
| 7 | >> | INFERRED FROM | INCLUDE | DTID 4015 "CAD Detections Performed" | 1 | MC | Shall be present unless the value of (111064, DCM, "Summary of Detections") is (111225, DCM, "Not Attempted") | \$DetectionCode = DCID 6014 "Mammography Single Image Finding" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|----|----------|---|--|
| 8 | > | CONTAINS | CODE | EV (111065, DCM, "Summary of Analyses") | 1 | M | | DCID 6042 "Status of Results" |
| 9 | >> | INFERRED FROM | INCLUDE | DTID 4016 "CAD Analyses Performed" | 1 | MC | Shall be present unless the value of (111065, DCM, "Summary of Analyses") is (111225, DCM, "Not Attempted") | \$AnalysisCode = DCID 6043 "Types of Mammography CAD Analysis" |

Content Item Descriptions

| | |
|----------------------|---|
| Image Library | The "Image Library" section of the Content Tree (TID 4000 "Mammography CAD Document Root", row 3) shall include all Image SOP Instances from the Current Requested Procedure Evidence Sequence (0040,A375) attribute of the SR Document General module. If a portion of another instance of a Mammography CAD SR IOD is duplicated in the "Overall Impression/ Recommendation" section of the Content Tree, the "Image Library" shall also include all Image Library Entries referenced from the duplicated portions of the Mammography CAD SR. |
| Detections Performed | The "Detections Performed" and "Analyses Performed" sections of the Content Tree (TID 4000 "Mammography CAD Document Root", rows 6 and 8) together shall reference all Image SOP Instances included in the Current Requested Procedure Evidence Sequence (0040,A375) attribute of the SR Document General module. |
| Analyses Performed | |

TID 4001 Mammography CAD Overall Impression/Recommendation

This Template forms the top of the mammography CAD results sub-tree. The contents of this Template describe the overall impression the mammography CAD device had for the mammographic evidence presented and any recommendations that the mammography CAD device made. The details of the overall impression and recommendation are expressed in this instance of the Mammography CAD Impression/Recommendation Body (see TID 4002 "Mammography CAD Impression/Recommendation Body"). The data from which the details are inferred, are expressed in the Mammography CAD Individual Impression/Recommendations (see TID 4003 "Mammography CAD Individual Impression/Recommendation"), of which there may be several.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4001. Mammography CAD Overall Impression/Recommendation

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|---|---|
| 1 | | | CODE | EV (111017, DCM, "CAD Processing and Findings Summary") | 1 | M | | DCID 6047 "CAD Processing and Findings Summary" |
| 2 | > | HAS PROPERTIES | INCLUDE | DTID 4002 "Mammography CAD Impression/Recommendation Body" | 1 | U | | |
| 3 | > | INFERRED FROM | INCLUDE | DTID 4003 "Mammography CAD Individual Impression/Recommendation" | 1-n | MC | Shall be present if 1 or more (111059, DCM, "Single Image Finding") or (111015, DCM, "Composite Feature") Content Items are reported. | |

Content Item Descriptions

| | |
|-------------------------------------|---|
| CAD Processing and Findings Summary | <p>This code value is used to express if and why the Overall Impression/Recommendation sub-tree is empty. The Summary of Detections and Summary of Analyses sub-trees of the Document Root node contain detail about which (if any) algorithms succeeded or failed.</p> <p>If the code value indicates that there were no findings, then the code value can be used to determine whether mammography CAD processing occurred successfully, without parsing the Summary of Detections and Summary of Analyses sub-trees.</p> |
| Row 3 | There are no constraints regarding the 1-n multiplicity of the inclusion of TID 4003 "Mammography CAD Individual Impression/Recommendation" or its underlying structure, other than the TID 4001 "Mammography CAD Overall Impression/Recommendation" and TID 4003 "Mammography CAD Individual Impression/Recommendation" requirements. Individual Impression/Recommendation containers may be organized, for example per image, per finding or composite feature, or some combination thereof. |

TID 4002 Mammography CAD Impression/Recommendation Body

The details of an impression and recommendation are expressed in this Template. It is applied to both Mammography CAD Overall Impression/Recommendation (TID 4001 "Mammography CAD Overall Impression/Recommendation") and Mammography CAD Individual Impression/Recommendation (TID 4003 "Mammography CAD Individual Impression/Recommendation").

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4002. Mammography CAD Impression/Recommendation Body

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|-----|----------|---|--|
| 1 | | | CODE | EV (111005, DCM, "Assessment Category") | 1-n | MC | At least one of rows 1, 3, 5, 6, 8, 9 shall be present. | DCID 6026 "Mammography Assessment" |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 6022 "Side" |
| 3 | | | CODE | EV (111023, DCM, "Differential Diagnosis/ Impression") | 1-n | MC | At least one of rows 1, 3, 5, 6, 8, 9 shall be present. | DCID 6002 "Change Since Last Mammogram or Prior Surgery" |
| 4 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 6022 "Side" |
| 5 | | | TEXT | EV (111033, DCM, "Impression Description") | 1 | MC | At least one of rows 1, 3, 5, 6, 8, 9 shall be present. | |
| 6 | | | CODE | EV (111053, DCM, "Recommended Follow-up") | 1-n | MC | At least one of rows 1, 3, 5, 6, 8, 9 shall be present. | DCID 6028 "Mammography Recommended Follow-up" |
| 7 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 6022 "Side" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|--|--|
| 8 | | | NUM | EV (111055, DCM, "Recommended Follow-up Interval") | 1 | MC | At least one of rows 1, 3, 5, 6, 8, 9 shall be present. May be present only if (111054, DCM, "Recommended Follow-up Date") is not present. | UNITS = DCID 6046 "Units of Follow-up Interval" Values = Integer ≥ 0 , where 0 = immediate follow-up |
| 9 | | | DATE | EV (111054, DCM, "Recommended Follow-up Date") | 1 | MC | At least one of rows 1, 3, 5, 6, 8, 9 shall be present. May be present only if (111055, DCM, "Recommended Follow-up Interval") is not present. | Shall be later than date of exam |
| 10 | | | NUM | EV (111013, DCM, "Certainty of impression") | 1 | UC | May be present only if (111005, DCM, "Assessment Category"), (111023, DCM, "Differential Diagnosis/Impression") or (111033, DCM, "Impression Description") is present. | UNITS = EV (% , UCUM, "Percent") Values = 0 - 100 |
| 11 | | | INCLUDE | DTID 4019 "CAD Algorithm Identification" | 1-n | M | | |
| 12 | | | NUM | DCID 6142 "Calculated Value" | 1-n | U | | |
| 13 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 6022 "Side" |
| 14 | > | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | M | | DCID 6140 "Calculation Methods" |
| 15 | > | INFERRED FROM | TEXT | EV (112034, DCM, "Calculation Description") | 1 | U | | |

Content Item Descriptions

| | |
|-------------------------|---|
| Certainty of Impression | The certainty that the device populating the Mammography CAD SR report places on this impression, where 0 equals no certainty and 100 equals certainty. |
| Impression Description | Free-form text describing the overall or an individual impression |

TID 4003 Mammography CAD Individual Impression/Recommendation

This Template collects an individual impression the mammography CAD device had for a lesion, non-lesion object, or correlation of related objects. The details of the impression and recommendation are expressed in the Mammography CAD Impression/Recommendation Body (see TID 4002 "Mammography CAD Impression/Recommendation Body"). The data from which the details are inferred are expressed in the Composite Features (see TID 4004 "Mammography CAD Composite Feature") and/or Single Image Findings (see TID 4006 "Mammography CAD Single Image Finding") of which there may be several.

The sub-tree headed by this Template is illustrated in Figure E.1-3 "Example of Individual Impression/Recommendation Levels of Mammography CAD SR Content Tree" in PS3.17.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4003. Mammography CAD Individual Impression/Recommendation

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|---|---|
| 1 | | | CONTAINER | EV (111034, DCM, "Individual Impression/ Recommendation") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111056, DCM, "Rendering Intent") | 1 | M | | DCID 6034 "Intended Use of CAD Output" |
| 3 | > | CONTAINS | INCLUDE | DTID 4002 "Mammography CAD Impression/Recommendation Body" | 1 | U | | |
| 4 | > | CONTAINS | INCLUDE | DTID 4004 "Mammography CAD Composite Feature" | 1-n | MC | At least one of rows 4, 5 shall be present. | |
| 5 | > | CONTAINS | INCLUDE | DTID 4006 "Mammography CAD Single Image Finding" | 1-n | MC | At least one of rows 4, 5 shall be present. | |

Content Item Descriptions

| | |
|------------------|--|
| Rendering Intent | This Content Item constrains the SCP receiving the Mammography CAD SR IOD in its use of the contents of this Template and its Target Content Items. Mammography CAD devices may opt to use data marked "Not for Presentation" or "Presentation Optional" as input to subsequent mammography CAD processing steps. Refer to Section O.2 "Structured Reporting Storage SOP Class SCU and SCP Behavior" in PS3.4. |
|------------------|--|

TID 4004 Mammography CAD Composite Feature

This Template collects a composite feature for a lesion, non-lesion object, or correlation of related objects. The details of the composition are expressed in the Mammography CAD Composite Feature Body (see TID 4005 "Mammography CAD Composite Feature Body"). The data from which the details are inferred, are expressed in the Composite Features (see TID 4004 "Mammography CAD Composite Feature") and/or Single Image Findings (see TID 4006 "Mammography CAD Single Image Finding"), of which there may be several.

A Composite Feature shall be INFERRED FROM any combination of two or more Composite Features or Single Image Findings or mixture thereof.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4004. Mammography CAD Composite Feature

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---------------------------------------|----|----------|-----------|--|
| 1 | | | CODE | EV (111015, DCM, "Composite Feature") | 1 | M | | DCID 6016 "Mammography Composite Feature" |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111056, DCM, "Rendering Intent") | 1 | M | | DCID 6034 "Intended Use of CAD Output" |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 4108 "Tracking Identifier" | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|--|----------------------|
| 4 | > | HAS PROPERTIES | INCLUDE | DTID 4005 "Mammography CAD Composite Feature Body" | 1 | M | | |
| 5 | > | INFERRED FROM | INCLUDE | DTID 4004 "Mammography CAD Composite Feature" | 1-n | MC | At least two items shall be present: two of row 5, two of row 6, or one of each. | |
| 6 | > | INFERRED FROM | INCLUDE | DTID 4006 "Mammography CAD Single Image Finding" | 1-n | MC | At least two items shall be present: two of row 5, two of row 6, or one of each. | |
| 7 | > | HAS OBS CONTEXT | INCLUDE | DTID 4022 "CAD Observation Context" | 1 | MC | Shall be present only if this feature is incorporated from a different report than its parent. | |

Content Item Descriptions

| | |
|------------------|--|
| Rendering Intent | This Content Item constrains the SCP receiving the Mammography CAD SR IOD in its use of the contents of this Template and its Target Content Items. Mammography CAD devices may opt to use data marked "Not for Presentation" or "Presentation Optional" as input to subsequent mammography CAD processing steps. Refer to Section O.2 "Structured Reporting Storage SOP Class SCU and SCP Behavior" in PS3.4. |
|------------------|--|

TID 4005 Mammography CAD Composite Feature Body

The details of a composite feature are expressed in this Template. It is applied to Mammography CAD Composite Feature (TID 4004 "Mammography CAD Composite Feature").

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4005. Mammography CAD Composite Feature Body

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|----|----------|-----------|--|
| 1 | | | CODE | EV (111016, DCM, "Composite type") | 1 | M | | DCID 6035 "Composite Feature Relations" The value shall be (111155, DCM, "Target content items are related contra-laterally") if the parent Content Item has code value (F-01792, SRT, "Focal asymmetric breast tissue") or (F-01793, SRT, "Asymmetric breast tissue"). |
| 2 | | | CODE | EV (111057, DCM, "Scope of Feature") | 1 | M | | DCID 6036 "Scope of Feature" |
| 3 | | | INCLUDE | DTID 4019 "CAD Algorithm Identification" | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|---|---|
| 4 | | | NUM | EV (111011, DCM, "Certainty of Feature") | 1 | U | | UNITS = EV (% , UCUM, "Percent") Value = 0 - 100 |
| 5 | | | NUM | EV (111047, DCM, "Probability of cancer") | 1 | UC | May be present only if value of parent is not (111102, DCM, "Non-lesion") | UNITS = EV (% , UCUM, "Percent") Value = 0 - 100 |
| 6 | | | CODE | EV (111042, DCM, "Pathology") | 1-n | U | | BCID 6030 "Mammography Pathology Codes" |
| 7 | | | INCLUDE | DTID 1400 "Linear Measurement" | 1-n | U | | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1400 "Linear Measurement" shall be used. |
| 8 | | | INCLUDE | DTID 1401 "Area Measurement" | 1-n | U | | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1401 "Area Measurement" shall be used. |
| 9 | | | INCLUDE | DTID 1402 "Volume Measurement" | 1-n | U | | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1402 "Volume Measurement" shall be used. |
| 10 | | | INCLUDE | DTID 4021 "Mammography CAD Geometry" | 1-n | U | | |
| 11 | | | NUM | DCID 6037 "Mammography Quantitative Temporal Difference Type" | 1-n | UC | May be present only if the value of (111016, DCM, "Composite type") is (111153, DCM, "Target content items are related temporally") | UNITS = DCID 7460 "Units of Linear Measurement" UNITS = DCID 7461 "Units of Area Measurement" UNITS = DCID 7462 "Units of Volume Measurement" UNITS = DT (1, UCUM, "no units") |
| 12 | > | R-INFERRED FROM | NUM | | 2 | U | | The referenced numeric values shall have the same Concept Name. Their UNITS shall be the same as row 11 |
| 13 | | | CODE | EV (111049, DCM, "Qualitative Difference") | 1-n | UC | May be present only if the value of (111016, DCM, "Composite type") is (111153, DCM, "Target content items are related temporally") | DCID 6038 "Mammography Qualitative Temporal Difference Type" |
| 14 | > | HAS PROPERTIES | TEXT | EV (111021, DCM, "Description of Change") | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|--|-----|----------|--|---|
| 15 | > | R-INFERRED FROM | CODE | | 2 | M | | The referenced code values shall have the same Concept Name and be from the same context group. |
| 16 | | | CODE | EV (111048, DCM, "Quadrant location") | 1 | U | | DCID 6020 "Quadrant Location" |
| 17 | | | CODE | EV (111014, DCM, "Clockface or region") | 1 | U | | DCID 6018 "Clockface Location or Region" |
| 18 | | | CODE | EV (111020, DCM, "Depth") | 1 | U | | DCID 6024 "Depth" |
| 19 | | | CODE | EV (111035, DCM, "Lesion Density") | 1 | UC | May be present only if value of parent is (F-01791, SRT, "Mammographic breast mass") or (F-01796, SRT, "Mammography breast density") | DCID 6008 "Density Modifier" |
| 20 | | | CODE | EV (M-020F9, SRT, "Shape") | 1 | UC | May be present only if value of parent is (F-01791, SRT, "Mammographic breast mass") or (F-01796, SRT, "Mammography breast density") | DCID 6004 "Mammography Characteristics of Shape" |
| 21 | | | CODE | EV (111037, DCM, "Margins") | 1-n | UC | May be present only if value of parent is (F-01791, SRT, "Mammographic breast mass") or (F-01796, SRT, "Mammography breast density") | DCID 6006 "Mammography Characteristics of Margin" |
| 22 | | | CODE | EV (111009, DCM, "Calcification Type") | 1-n | UC | May be present only if value of parent is (F-01775, SRT, "Calcification Cluster") or (F-01776, SRT, "Individual Calcification") | DCID 6010 "Mammography Calcification Types" |
| 23 | | | CODE | EV (111008, DCM, "Calcification Distribution") | 1 | UC | May be present only if value of parent is (F-01775, SRT, "Calcification Cluster") | DCID 6012 "Calcification Distribution Modifier" |
| 24 | | | NUM | EV (111038, DCM, "Number of calcifications") | 1 | UC | May be present only if value of parent is (F-01775, SRT, "Calcification Cluster") | UNITS = EV (1, UCUM, "no units") Value = Integer 1 - n |
| 25 | | | NUM | DCID 6142 "Calculated Value" | 1-n | U | | |
| 26 | > | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | M | | DCID 6140 "Calculation Methods" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|----|----------|-----------|----------------------|
| 27 | > | INFERRED FROM | TEXT | EV (112034, DCM, "Calculation Description") | 1 | U | | |

Content Item Descriptions

| | |
|------------------------|--|
| Certainty of Feature | The likelihood that the feature analyzed, and classified by the CODE specified in the Composite Feature parent Template, is in fact that type of feature. |
| Volume Measurement | If dimensions for a volume are to be stated in terms of length, width, and depth, then one shall use 3 instances of TID 1400 "Linear Measurement". |
| Row 11 | Values ≤ 0 are allowed. The two referenced numeric values are Target Content Items of the first generation Composite Feature or Single Image Finding children of this composite feature. Given the equation, A - B, the value representing A shall be referenced first. |
| Qualitative Difference | The two referenced code values are Target Content Items of the first generation Composite Feature or Single Image Finding children of this composite feature. |

TID 4006 Mammography CAD Single Image Finding

This Template describes a single image finding for a lesion or other object. The details of the finding are expressed in this Template and/or more specific Templates. The details from which a single image Calcification Cluster is inferred may be expressed in a number of Single Image Findings (see TID 4006 "Mammography CAD Single Image Finding") of type Individual Calcification.

A Single Image Finding of type Breast Composition may be INFERRED FROM by-reference to a Single Image Finding of type Breast Geometry.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4006. Mammography CAD Single Image Finding

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|----|----------|---|--|
| 1 | | | CODE | EV (111059, DCM, "Single Image Finding") | 1 | M | | DCID 6014 "Mammography Single Image Finding" |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111056, DCM, "Rendering Intent") | 1 | M | | DCID 6034 "Intended Use of CAD Output" |
| 3 | >> | HAS PROPERTIES | NUM | EV (111071, DCM, "CAD Operating Point") | 1 | UC | IFF value of row 2 is (111151, DCM, "Presentation Optional") and row 9 of TID 4017 "CAD Detection Performed" is present | UNITS = DT ({1:n}, UCUM, "range: 1:n"), where n is the maximum specified in Row 9 of TID 4017 "CAD Detection Performed". Value is restricted to being an integer |
| 4 | > | HAS OBS CONTEXT | INCLUDE | DTID 4108 "Tracking Identifier" | 1 | U | | |
| 5 | > | HAS PROPERTIES | INCLUDE | DTID 4019 "CAD Algorithm Identification" | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|--|---|
| 6 | > | HAS PROPERTIES | NUM | EV (111012, DCM, "Certainty of Finding") | 1 | U | | UNITS = EV (% UCUM, "Percent") Value = 0 - 100 |
| 7 | > | HAS PROPERTIES | NUM | EV (111047, DCM, "Probability of cancer") | 1 | UC | May be present unless value of parent is (F-01710, SRT, "Breast composition"), (111100, DCM, "Breast geometry"), (T-04100, SRT, "Nipple"), (111099, DCM, "Selected region"), (111101, DCM, "Image quality") or (111102, DCM, "Non-lesion") | UNITS = EV (% UCUM, "Percent") Value = 0 - 100 |
| 8 | > | HAS PROPERTIES | INCLUDE | DTID 4021 "Mammography CAD Geometry" | 1 | MC | Shall be present unless value of parent is (F-01710, SRT, "Breast composition"), (111100, DCM, "Breast geometry") or (111101, DCM, "Image quality") | |
| 9 | > | HAS PROPERTIES | INCLUDE | DTID 4007 "Mammography CAD Breast Composition" | 1 | MC | Shall be present only if value of parent is (F-01710, SRT, "Breast composition") | |
| 10 | > | R-INFERRED FROM | CODE | | 1-n | UC | May be present only if value of parent is (F-01710, SRT, "Breast composition") | Shall reference a (111059, DCM, "Single Image Finding") of value: EV (111100, DCM, "Breast geometry") |
| 11 | > | HAS PROPERTIES | INCLUDE | DTID 4008 "Mammography CAD Breast Geometry" | 1 | MC | Shall be present only if value of parent is (111100, DCM, "Breast geometry") | |
| 12 | > | HAS PROPERTIES | INCLUDE | DTID 4009 "Mammography CAD Individual Calcification" | 1 | UC | May be present only if value of parent is (F-01776, SRT, "Individual Calcification") | |
| 13 | > | HAS PROPERTIES | INCLUDE | DTID 4010 "Mammography CAD Calcification Cluster" | 1 | UC | May be present only if value of parent is (F-01775, SRT, "Calcification Cluster") | |
| 14 | > | HAS PROPERTIES | INCLUDE | DTID 4011 "Mammography CAD Density" | 1 | UC | May be present only if value of parent is (F-01796, SRT, "Mammography breast density") | |
| 15 | > | HAS PROPERTIES | CODE | EV (111297, DCM, "Nipple Characteristic") | 1 | UC | May be present only if value of parent is (T-04100, SRT, "Nipple") | DCID 6039 "Nipple Characteristic" |
| 16 | > | HAS PROPERTIES | INCLUDE | DTID 4012 "Mammography CAD Non-lesion" | 1 | MC | Shall be present only if value of parent is (111102, DCM, "Non-lesion") | |
| 17 | > | HAS PROPERTIES | INCLUDE | DTID 4013 "Mammography CAD Selected Region" | 1 | MC | Shall be present only if value of parent is (111099, DCM, "Selected Region") | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|--|---|
| 18 | > | R-INFERRED FROM | IMAGE | | 1 | MC | IF value of parent is (111101, DCM, "Image quality") and IFF row 19 is not present | Shall reference an IMAGE Content Item in the (111028, DCM, "Image Library") |
| 19 | > | HAS PROPERTIES | SCOORD | EV (111030, DCM, "Image Region") | 1-n | MC | IF value of parent is (111101, DCM, "Image quality") and IFF row 18 is not present | |
| 20 | >> | R-SELECTED FROM | IMAGE | | 1 | M | | All the (111030, DCM, "Image Region") Content Items in a single invocation of this Template shall reference the same IMAGE Content Item in the (111028, DCM, "Image Library") |
| 21 | > | HAS PROPERTIES | INCLUDE | DTID 4014 "CAD Image Quality" | 1-n | MC | Shall be present only if value of parent is (111101, DCM, "Image quality") | \$QualityFinding = DCID 6041 "Mammography Image Quality Finding" \$QualityStandard = DCID 6045 "Mammography Types of Quality Control Standard" |
| 22 | > | HAS PROPERTIES | NUM | DCID 6142 "Calculated Value" | 1-n | U | | |
| 23 | >> | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | M | | DCID 6140 "Calculation Methods" |
| 24 | >> | INFERRED FROM | TEXT | EV (112034, DCM, "Calculation Description") | 1 | U | | |
| 25 | > | INFERRED FROM | INCLUDE | DTID 4006 "Mammography CAD Single Image Finding" | 1-n | UC | May be present only if value of parent is (F-01775, SRT, "Calcification Cluster") | EV (F-01776, SRT, "Individual Calcification") |
| 26 | > | HAS OBS CONTEXT | INCLUDE | DTID 4022 "CAD Observation Context" | 1 | MC | Shall be present only if this finding is incorporated from a different report than its parent. | |

Content Item Descriptions

| | |
|---------------------|--|
| Rendering Intent | This Content Item constrains the SCP receiving the Mammography CAD SR IOD in its use of the contents of this Template and its Target Content Items. Mammography CAD devices may opt to use data marked "Not for Presentation" or "Presentation Optional" as input to subsequent mammography CAD processing steps. Refer to Section O.2 "Structured Reporting Storage SOP Class SCU and SCP Behavior" in PS3.4. |
| CAD Operating Point | Additional information to use when Rendering Intent is "Presentation Optional". A CAD Operating Point of zero is not sent, and is encoded as a Rendering Intent of "Presentation Required". See Section O.2 "Structured Reporting Storage SOP Class SCU and SCP Behavior" in PS3.4 and Section E.4 "CAD Operating Point" in PS3.17. |

| | |
|----------------------|---|
| Single Image Finding | A Single Image Finding (whose parent is a Single Image Finding of type Calcification Cluster) allows one level of nesting for the definition of individual calcifications within the cluster. To use this Template recursively, this Single Image Finding code value shall be "Individual Calcification". |
| Certainty of Finding | The likelihood that the finding detected, and classified by the CODE specified in the Single Image Finding parent Template, is in fact that type of finding. |

TID 4007 Mammography CAD Breast Composition

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4007. Mammography CAD Breast Composition

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|----|----------|---|---|
| 1 | | | CODE | EV (F-01710, SRT, "Breast composition") | 1 | MC | At least one of row 1 or 2 shall be present | DCID 6000 "Overall Breast Composition" |
| 2 | | | NUM | EV (111046, DCM, "Percent Fibroglandular Tissue") | 1 | MC | At least one of row 1 or 2 shall be present | UNITS = EV (% , UCUM, "Percent") Value = 0 - 100 |

Content Item Descriptions

| | |
|-------------------------------|---|
| Percent Fibroglandular Tissue | Percent of breast area that is mammographically dense, excluding pectoralis muscle. |
|-------------------------------|---|

TID 4008 Mammography CAD Breast Geometry

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4008. Mammography CAD Breast Geometry

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|---|----|----------|-----------|---|
| 1 | | | SCoord | EV (111007, DCM, "Breast Outline Including Pectoral Muscle Tissue") | 1 | M | | GRAPHIC TYPE = {POLYLINE} |
| 2 | > | R-SELECTED FROM | IMAGE | | 1 | M | | Shall reference an IMAGE Content Item in the (111028, DCM, "Image Library") |
| 3 | | | SCoord | EV (111045, DCM, "Pectoral Muscle Outline") | 1 | U | | GRAPHIC TYPE = {POLYLINE} |
| 4 | > | R-SELECTED FROM | IMAGE | | 1 | M | | Shall reference the same node as row 2 |

Content Item Descriptions

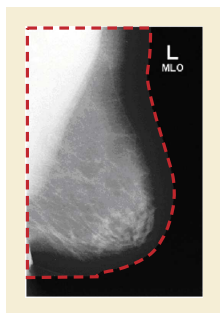


Figure A-8a. Example of Breast Outline Including Pectoral Muscle Tissue



Figure A-8b. Example of Pectoral Muscle Outline

TID 4009 Mammography CAD Individual Calcification

This Template provides the detail specific to an individual calcification.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4009. Mammography CAD Individual Calcification

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|---|--|
| 1 | | | CODE | EV (111009, DCM, "Calcification Type") | 1-n | MC | At least one of rows 1, 2, 3 shall be present | DCID 6010 "Mammography Calcification Types" |
| 2 | | | INCLUDE | DTID 1400 "Linear Measurement" | 1-n | MC | At least one of rows 1, 2, 3 shall be present | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1400 "Linear Measurement" shall be used. |
| 3 | | | INCLUDE | DTID 1401 "Area Measurement" | 1-n | MC | At least one of rows 1, 2, 3 shall be present | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1401 "Area Measurement" shall be used. |
| 4 | | | INCLUDE | DTID 1402 "Volume Measurement" | 1-n | U | | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1402 "Volume Measurement" shall be used. |

TID 4010 Mammography CAD Calcification Cluster

This Template provides the detail specific to a calcification cluster.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4010. Mammography CAD Calcification Cluster

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|---|--|
| 1 | | | CODE | EV (111009, DCM, "Calcification Type") | 1-n | MC | At least one of rows 1, 2, 3, 4, 5 shall be present | DCID 6010 "Mammography Calcification Types" |
| 2 | | | CODE | EV (111008, DCM, "Calcification Distribution") | 1 | MC | At least one of rows 1, 2, 3, 4, 5 shall be present | DCID 6012 "Calcification Distribution Modifier" |
| 3 | | | NUM | EV (111038, DCM, "Number of calcifications") | 1 | MC | At least one of rows 1, 2, 3, 4, 5 shall be present | UNITS = EV (1, UCUM, "no units") Value = Integer > = 1 |
| 4 | | | INCLUDE | DTID 1400 "Linear Measurement" | 1-n | MC | At least one of rows 1, 2, 3, 4, 5 shall be present | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1400 "Linear Measurement" shall be used. |
| 5 | | | INCLUDE | DTID 1401 "Area Measurement" | 1-n | MC | At least one of rows 1, 2, 3, 4, 5 shall be present | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1401 "Area Measurement" shall be used. |
| 6 | | | INCLUDE | DTID 1402 "Volume Measurement" | 1-n | U | | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1402 "Volume Measurement" shall be used. |

TID 4011 Mammography CAD Density

This Template provides the detail specific to a density.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4011. Mammography CAD Density

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|------------------------------------|-----|----------|---|---|
| 1 | | | CODE | EV (111035, DCM, "Lesion Density") | 1 | MC | At least one of rows 1, 2, 3, 4, 5 shall be present | DCID 6008 "Density Modifier" |
| 2 | | | CODE | EV (M-020F9, SRT, "Shape") | 1 | MC | At least one of rows 1, 2, 3, 4, 5 shall be present | DCID 6004 "Mammography Characteristics of Shape" |
| 3 | | | CODE | EV (111037, DCM, "Margins") | 1-n | MC | At least one of rows 1, 2, 3, 4, 5 shall be present | DCID 6006 "Mammography Characteristics of Margin" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--------------------------------|-----|----------|---|--|
| 4 | | | INCLUDE | DTID 1400 "Linear Measurement" | 1-n | MC | At least one of rows 1, 2, 3, 4, 5 shall be present | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1400 "Linear Measurement" shall be used. |
| 5 | | | INCLUDE | DTID 1401 "Area Measurement" | 1-n | MC | At least one of rows 1, 2, 3, 4, 5 shall be present | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1401 "Area Measurement" shall be used. |
| 6 | | | INCLUDE | DTID 1402 "Volume Measurement" | 1-n | U | | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1402 "Volume Measurement" shall be used. |

TID 4012 Mammography CAD Non-lesion

This Template provides the detail specific to a finding other than a lesion (see CID 6040 "Non-lesion Object Type").

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4012. Mammography CAD Non-lesion

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---------------------------------|-----|----------|-----------|--|
| 1 | | | CODE | EV (111039, DCM, "Object type") | 1 | M | | DCID 6040 "Non-lesion Object Type" |
| 2 | | | INCLUDE | DTID 1400 "Linear Measurement" | 1-n | U | | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1400 "Linear Measurement" shall be used. |
| 3 | | | INCLUDE | DTID 1401 "Area Measurement" | 1-n | U | | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1401 "Area Measurement" shall be used. |
| 4 | | | INCLUDE | DTID 1402 "Volume Measurement" | 1-n | U | | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1402 "Volume Measurement" shall be used. |

TID 4013 Mammography CAD Selected Region

This Template provides the detail specific to a selected region. A selected region is any mammography CAD derived arbitrary region of the image, whether within the breast outline or not. This can be use to delineate regions such as the intramammary fold.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4013. Mammography CAD Selected Region

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|--|
| 1 | | | TEXT | EV (111058, DCM, "Selected Region Description") | 1 | M | | |
| 2 | | | INCLUDE | DTID 1400 "Linear Measurement" | 1-n | U | | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1400 "Linear Measurement" shall be used. |
| 3 | | | INCLUDE | DTID 1401 "Area Measurement" | 1-n | U | | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1401 "Area Measurement" shall be used. |
| 4 | | | INCLUDE | DTID 1402 "Volume Measurement" | 1-n | U | | If the measured path is encoded, the SCOORD and its by-reference relationship to the IMAGE in TID 1402 "Volume Measurement" shall be used. |

TID 4014 CAD Image Quality

This Template provides the detail specific to image quality. It allows the encoding of descriptors of image quality (e.g., CID 6041 "Mammography Image Quality Finding") for a given image or region of an image. For instance, images with partial motion blur can be identified with the region noted.

Table TID 4014. Parameters

| Parameter Name | Parameter Usage |
|-------------------|--|
| \$QualityFinding | Coded term or Context Group for Quality Finding |
| \$QualityStandard | Coded term or Context Group for Quality Control Standard |

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4014. CAD Image Quality

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|----|----------|---------------------------------------|---|
| 1 | | | CODE | EV (111052, DCM, "Quality Finding") | 1 | M | | \$QualityFinding |
| 2 | > | HAS PROPERTIES | CODE | EV (111050, DCM, "Quality Assessment") | 1 | U | | DCID 6044 "Types of Image Quality Assessment" |
| 3 | > | HAS PROPERTIES | CODE | EV (111051, DCM, "Quality Control Standard") | 1 | UC | Shall be present if row 2 is present. | \$QualityStandard |
| 4 | > | HAS PROPERTIES | NUM | EV (111029, DCM, "Image Quality Rating") | 1 | U | | UNITS = EV (% , UCUM, "Percent") Value = 0 - 100 |

Content Item Descriptions

| | |
|----------------------|---|
| Image Quality Rating | A numeric value in the range 0 to 100, inclusive, where 0 is worst quality and 100 is best quality. |
|----------------------|---|

TID 4015 CAD Detections Performed

This Template gathers two lists of detection algorithms attempted, grouped by success/failure status. Algorithms not attempted are not mentioned in this sub-tree of the Document Root (e.g., TID 4000 "Mammography CAD Document Root"). This information forms the basis for understanding why a CAD report may produce no (or fewer than anticipated) detection results.

The sub-tree formed by this Template is illustrated in Figure E.1-2 "Summary of Detections and Analyses Levels of Mammography CAD SR Content Tree" in PS3.17.

Table TID 4015. Parameters

| Parameter Name | Parameter Usage |
|-----------------|---|
| \$DetectionCode | Coded term or Context Group for Detection Performed |

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4015. CAD Detections Performed

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|--|-----------------------------------|
| 1 | | | CONTAINER | EV (111063, DCM, "Successful Detections") | 1 | MC | Shall be present only if value of parent is (111222, DCM, "Succeeded") or (111223, DCM, "Partially Succeeded") | |
| 2 | > | CONTAINS | INCLUDE | DTID 4017 "CAD Detection Performed" | 1-n | M | | \$DetectionCode = \$DetectionCode |
| 3 | | | CONTAINER | EV (111025, DCM, "Failed Detections") | 1 | MC | Shall be present only if value of parent is (111224, DCM, "Failed") or (111223, DCM, "Partially Succeeded") | |
| 4 | > | CONTAINS | INCLUDE | DTID 4017 "CAD Detection Performed" | 1-n | M | | \$DetectionCode = \$DetectionCode |

TID 4016 CAD Analyses Performed

This Template gathers two lists of analysis algorithms attempted, grouped by success/failure status. Algorithms not attempted are not mentioned in this sub-tree of the Document Root (e.g., TID 4000 "Mammography CAD Document Root"). This information forms the basis for understanding why a CAD report may produce no (or fewer than anticipated) analysis results.

The sub-tree formed by this Template is illustrated in Figure E.1-2 "Summary of Detections and Analyses Levels of Mammography CAD SR Content Tree" in PS3.17.

Table TID 4016. Parameters

| Parameter Name | Parameter Usage |
|----------------|--|
| \$AnalysisCode | Coded term or Context Group for Analysis Performed |

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4016. CAD Analyses Performed

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|--|---------------------------------|
| 1 | | | CONTAINER | EV (111062, DCM, "Successful Analyses") | 1 | MC | Shall be present only if value of parent is (111222, DCM, "Succeeded") or (111223, DCM, "Partially Succeeded") | |
| 2 | > | CONTAINS | INCLUDE | DTID 4018 "CAD Analysis Performed" | 1-n | M | | \$AnalysisCode = \$AnalysisCode |
| 3 | | | CONTAINER | EV (111024, DCM, "Failed Analyses") | 1 | MC | Shall be present only if value of parent is (111224, DCM, "Failed") or (111223, DCM, "Partially Succeeded") | |
| 4 | > | CONTAINS | INCLUDE | DTID 4018 "CAD Analysis Performed" | 1-n | M | | \$AnalysisCode = \$AnalysisCode |

TID 4017 CAD Detection Performed

This Template fully identifies a detection algorithm and the images and/or image regions on which it operated (see TID 4015 "CAD Detections Performed").

Table TID 4017. Parameters

| Parameter Name | Parameter Usage |
|-----------------|---|
| \$DetectionCode | Coded term or Context Group for Detection Performed |

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4017. CAD Detection Performed

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|------------------|---------|--|-----|----------|---|---|
| 1 | | | CODE | EV (111022, DCM, "Detection Performed") | 1 | M | | \$DetectionCode |
| 2 | > | HAS PROPERTIES | INCLUDE | DTID 4019 "CAD Algorithm Identification" | 1 | M | | |
| 3 | > | HAS PROPERTIES | IMAGE | | 1-n | MC | At least one of row 3, 4, 5 or 6 shall be present | |
| 4 | > | R-HAS PROPERTIES | IMAGE | | 1-n | MC | At least one of row 3, 4, 5 or 6 shall be present | Shall reference IMAGE Content Item(s) in the (111028, DCM, "Image Library") |
| 5 | > | HAS PROPERTIES | UIDREF | EV (112002, DCM, "Series Instance UID") | 1-n | MC | At least one of row 3, 4, 5 or 6 shall be present | |
| 6 | > | HAS PROPERTIES | SCCOORD | EV (111030, DCM, "Image Region") | 1-n | MC | At least one of row 3, 4, 5 or 6 shall be present | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|----------------------------------|----|----------|-----------|---|
| 7 | >> | SELECTED FROM | IMAGE | | 1 | MC | XOR row 8 | |
| 8 | >> | R-SELECTED FROM | IMAGE | | 1 | MC | XOR row 7 | Shall reference an IMAGE Content Item in the (111028, DCM, "Image Library") |
| 9 | > | | INCLUDE | DTID 4023 "CAD Operating Points" | 1 | U | | |

Content Item Descriptions

| | |
|------------------------------|---|
| CAD Algorithm Identification | If more than one detection algorithm has the same "Detection Performed" code value (e.g., CID 6014 "Mammography Single Image Finding") then the "CAD Algorithm Identification" shall unambiguously distinguish between algorithms. |
| Rows 5, 6 | <p>Mammography CAD SR: When this Template is invoked for the Mammography CAD SR, the Image Library is mandatory, thus only row 4 and/or row 6 shall be present.</p> <p>Chest CAD SR: When this Template is invoked for the Chest CAD SR, the Image Library is optional, thus any combination of rows 3, 4, 5 and 6 may be present.</p> <p>Colon CAD SR: When this Template is invoked for the Colon CAD SR, the Image Library does not exist, thus rows 3, 5, and/or 6 may be present and row 4 shall not be present.</p> |
| Rows 5, 6 | <p>Mammography CAD SR: When this Template is invoked for the Mammography CAD SR, the Image Library is mandatory, thus only row 8 shall be present.</p> <p>Chest CAD SR: When this Template is invoked for the Chest CAD SR, the Image Library is optional, thus row 7 or 8 may be present.</p> <p>Colon CAD SR: When this Template is invoked for the Colon CAD SR, the Image Library does not exist, thus only row 7 may be present.</p> |

TID 4018 CAD Analysis Performed

This Template fully identifies an analysis algorithm and the images and/or image regions on which it operated (see TID 4016 "CAD Analyses Performed").

Table TID 4018. Parameters

| Parameter Name | Parameter Usage |
|----------------|--|
| \$AnalysisCode | Coded term or Context Group for Analysis Performed |

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4018. CAD Analysis Performed

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|----|----------|-----------|----------------------|
| 1 | | | CODE | EV (111004, DCM, "Analysis Performed") | 1 | M | | \$AnalysisCode |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|------------------|---------|--|-----|----------|---|---|
| 2 | > | HAS PROPERTIES | INCLUDE | DTID 4019 "CAD Algorithm Identification" | 1 | M | | |
| 3 | > | HAS PROPERTIES | IMAGE | | 1-n | MC | At least one of row 3, 4, 5 or 6 shall be present | |
| 4 | > | R-HAS PROPERTIES | IMAGE | | 1-n | MC | At least one of row 3, 4, 5 or 6 shall be present | Shall reference IMAGE Content Item(s) in the (111028, DCM, "Image Library") |
| 5 | > | HAS PROPERTIES | UIDREF | EV (112002, DCM, "Series Instance UID") | 1-n | MC | At least one of row 3, 4, 5 or 6 shall be present | |
| 6 | > | HAS PROPERTIES | SCCOORD | EV (111030, DCM, "Image Region") | 1-n | MC | At least one of row 3, 4, 5 or 6 shall be present | |
| 7 | >> | SELECTED FROM | IMAGE | | 1 | MC | XOR Row 8 | |
| 8 | >> | R-SELECTED FROM | IMAGE | | 1 | MC | XOR Row 7 | Shall reference an IMAGE Content Item in the (111028, DCM, "Image Library") |
| 9 | > | | INCLUDE | DTID 4023 "CAD Operating Points" | 1 | U | | |

Content Item Descriptions

| | |
|------------------------------|---|
| CAD Algorithm Identification | If more than one analysis algorithm has the same "Analysis Performed" code value (e.g., CID 6043 "Types of Mammography CAD Analysis") then the "CAD Algorithm Identification" shall unambiguously distinguish between algorithms. |
| Rows 5, 6 | <p>Mammography CAD SR: When this Template is invoked for the Mammography CAD SR, the Image Library is mandatory, and a total of at least two instances of row 4 or row 6 shall be present.</p> <p>Chest CAD SR: When this Template is invoked for the Chest CAD SR, the Image Library is optional, thus any combination of rows 3, 4, 5 and 6 may be present.</p> <p>Colon CAD SR: When this Template is invoked for the Colon CAD SR, the Image Library does not exist, thus rows 3, 5 and/or 6 may be present and row 4 shall not be present.</p> |
| Rows 5, 6 | <p>Mammography CAD SR: When this Template is invoked for the Mammography CAD SR, the Image Library is mandatory, thus only row 8 shall be present.</p> <p>Chest CAD SR: When this Template is invoked for the Chest CAD SR, the Image Library is optional, thus row 7 or 8 may be present.</p> <p>Colon CAD SR: When this Template is invoked for the Colon CAD SR, the Image Library does not exist, thus only row 7 may be present.</p> |

TID 4019 CAD Algorithm Identification

This Template details the algorithm unambiguously. Re-state the software identification from the General Equipment Module of the SR IOD if all algorithms are unambiguously defined by that module.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4019. CAD Algorithm Identification

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|-----|----------|-----------|----------------------|
| 1 | | | TEXT | EV (111001, DCM, "Algorithm Name") | 1 | M | | |
| 2 | | | TEXT | EV (111003, DCM, "Algorithm Version") | 1 | M | | |
| 3 | | | TEXT | EV (111002, DCM, "Algorithm Parameters") | 1-n | U | | |

TID 4020 CAD Image Library Entry

Each instance of the Image Library Entry Template contains the Image SOP Class and Instance UIDs, and selected attributes for an image that facilitate spatial analysis without having to retrieve the entire set of referenced images. If values for the attributes are not present in the Image SOP Instance, then as many of the attributes as possible should be derived.

Table TID 4020. Parameters

| Parameter Name | Parameter Usage |
|-------------------|---|
| \$ImageLaterality | Coded term or Context Group for Image Laterality |
| \$ImageView | Coded term or Context Group for Image View |
| \$ImageViewMod | Coded term or Context Group for Image View Modifier |

Type: Extensible
Order: Significant
Root: No

Table TID 4020. CAD Image Library Entry

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-------|--|-----|----------|--|----------------------|
| 1 | | | IMAGE | | 1 | M | | |
| 2 | > | HAS ACQ CONTEXT | CODE | EV (111027, DCM, "Image Laterality") | 1 | MC | Shall be present if (0020,0062) is in the Image Instance | \$ImageLaterality |
| 3 | > | HAS ACQ CONTEXT | CODE | EV (111031, DCM, "Image View") | 1 | MC | Shall be present if (0054,0220) is in the Image Instance | \$ImageView |
| 4 | >> | HAS CONCEPT MOD | CODE | EV (111032, DCM, "Image View Modifier") | 1-n | MC | Shall be present if (0054,0222) is in the Image Instance | \$ImageViewMod |
| 5 | > | HAS ACQ CONTEXT | TEXT | EV (111044, DCM, "Patient Orientation Row") | 1 | MC | Shall be present if (0020,0020) is in the Image Instance | |
| 6 | > | HAS ACQ CONTEXT | TEXT | EV (111043, DCM, "Patient Orientation Column") | 1 | MC | Shall be present if (0020,0020) is in the Image Instance | |
| 7 | > | HAS ACQ CONTEXT | DATE | EV (111060, DCM, "Study Date") | 1 | MC | Shall be present if (0008,0020) is in the Image Instance | |
| 8 | > | HAS ACQ CONTEXT | TIME | EV (111061, DCM, "Study Time") | 1 | MC | Shall be present if (0008,0030) is in the Image Instance | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|--------|--|----|----------|---|--|
| 9 | > | HAS ACQ CONTEXT | DATE | EV (111018, DCM, "Content Date") | 1 | MC | Shall be present if (0008,0023) is in the Image Instance | |
| 10 | > | HAS ACQ CONTEXT | TIME | EV (111019, DCM, "Content Time") | 1 | MC | Shall be present if (0008,0033) is in the Image Instance | |
| 11 | > | HAS ACQ CONTEXT | NUM | EV (111026, DCM, "Horizontal Pixel Spacing") | 1 | MC | Shall be present if (0018,1164) or (0028,0030) is in the Image Instance | UNITS = EV (um, UCUM, "micrometer") UNITS = EV (mm, UCUM, "millimeter") |
| 12 | > | HAS ACQ CONTEXT | NUM | EV (111066, DCM, "Vertical Pixel Spacing") | 1 | MC | Shall be present if (0018,1164) or (0028,0030) is in the Image Instance | UNITS = EV (um, UCUM, "micrometer") UNITS = EV (mm, UCUM, "millimeter") |
| 13 | > | HAS ACQ CONTEXT | NUM | EV (112011, DCM, "Positioner Primary Angle") | 1 | UC | May be present if (0018,1510) is in the Image Instance | UNITS = EV (deg, UCUM, "deg") |
| 14 | > | HAS ACQ CONTEXT | NUM | EV (112012, DCM, "Positioner Secondary Angle") | 1 | UC | May be present if (0018,1511) is in the Image Instance | UNITS = EV (deg, UCUM, "deg") |
| 15 | > | HAS ACQ CONTEXT | NUM | EV (112226, DCM, "Spacing between slices") | 1 | UC | May be computed from the Image Position (Patient) (0020,0032) projected onto the normal to the Image Orientation (Patient) (0020,0037) if present; may or may not be the same as the Spacing Between Slices (0018,0088) if present. | UNITS = EV (mm, UCUM, "millimeter") |
| 16 | > | HAS ACQ CONTEXT | NUM | EV (112225, DCM, "Slice Thickness") | 1 | UC | May be present if Slice Thickness (0018,0050) is in the Image Instance. | UNITS = EV (mm, UCUM, "millimeter") |
| 17 | > | HAS ACQ CONTEXT | UIDREF | EV (112227, DCM, "Frame of Reference UID") | 1 | UC | May be present if Frame of Reference UID (0020,0052) is in the Image Instance. | |
| 18 | > | HAS ACQ CONTEXT | NUM | EV (110901, DCM, "Image Position (Patient) X") | 1 | UC | May be present if Image Position (Patient) (0020,0032) is in the Image Instance, and is the first value of Image Position (Patient) (0020,0032) for the referenced image or frame. | UNITS = EV (mm, UCUM, "millimeter") |
| 19 | > | HAS ACQ CONTEXT | NUM | EV (110902, DCM, "Image Position (Patient) Y") | 1 | MC | Shall be present if Row 18 is present, and is the second value of Image Position (Patient) (0020,0032) in the Image Instance for the referenced image or frame. | UNITS = EV (mm, UCUM, "millimeter") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----|--|----|----------|---|---------------------------------------|
| 20 | > | HAS ACQ CONTEXT | NUM | EV (110903, DCM, "Image Position (Patient) Z") | 1 | MC | Shall be present if Row 18 is present, and is the second value of Image Position (Patient) (0020,0032) in the Image Instance for the referenced image or frame. | UNITS = EV (mm, UCUM, "millimeter") |
| 21 | > | HAS ACQ CONTEXT | NUM | EV (110904, DCM, "Image Orientation (Patient) Row X") | 1 | UC | May be present if Image Position (Patient) (0020,0037) is in the Image Instance, and is the first value of Image Orientation (Patient) (0020,0037) for the referenced image or frame. | UNITS = EV ({-1:1}, UCUM, "{-1:1}") |
| 22 | > | HAS ACQ CONTEXT | NUM | EV (110905, DCM, "Image Orientation (Patient) Row Y") | 1 | MC | Shall be present if Row 21 is present, and is the second value of Image Orientation (Patient) (0020,0037) in the Image Instance for the referenced image or frame. | UNITS = EV ({-1:1}, UCUM, "{-1:1}") |
| 23 | > | HAS ACQ CONTEXT | NUM | EV (110906, DCM, "Image Orientation (Patient) Row Z") | 1 | MC | Shall be present if Row 21 is present, and is the third value of Image Orientation (Patient) (0020,0037) in the Image Instance for the referenced image or frame. | UNITS = EV ({-1:1}, UCUM, "{-1:1}") |
| 24 | > | HAS ACQ CONTEXT | NUM | EV (110907, DCM, "Image Orientation (Patient) Column X") | 1 | MC | Shall be present if Row 21 is present, and is the fourth value of Image Orientation (Patient) (0020,0037) in the Image Instance for the referenced image or frame. | UNITS = EV ({-1:1}, UCUM, "{-1:1}") |
| 25 | > | HAS ACQ CONTEXT | NUM | EV (110908, DCM, "Image Orientation (Patient) Column Y") | 1 | MC | Shall be present if Row 21 is present, and is the fifth value of Image Orientation (Patient) (0020,0037) in the Image Instance for the referenced image or frame. | UNITS = EV ({-1:1}, UCUM, "{-1:1}") |
| 26 | > | HAS ACQ CONTEXT | NUM | EV (110909, DCM, "Image Orientation (Patient) Column Z") | 1 | MC | Shall be present if Row 21 is present, and is the sixth value of Image Orientation (Patient) (0020,0037) in the Image Instance for the referenced image or frame. | UNITS = EV ({-1:1}, UCUM, "{-1:1}") |
| 27 | > | HAS ACQ CONTEXT | NUM | EV (110910, DCM, "Pixel Data Rows") | 1 | UC | May be present if Rows (0028,0010) is in the Image Instance. | UNITS = EV ({pixels}, UCUM, "pixels") |
| 28 | > | HAS ACQ CONTEXT | NUM | EV (110911, DCM, "Pixel Data Columns") | 1 | MC | Shall be present if Row 27 is present, and is the value of Columns (0028,0011) in the Image Instance. | UNITS = EV ({pixels}, UCUM, "pixels") |

Content Item Descriptions

| | |
|---------------------------------|---|
| Patient Orientation Row | First (row) and second (column) components of Patient Orientation (0020,0020) in the Image IOD. See Section C.7.6.1.1.1 in PS3.3. |
| Patient Orientation Column | |
| Horizontal Imager Pixel Spacing | The second component of Imager Pixel Spacing (0018,1164) in the Image IOD. See Section C.8.11.4 in PS3.3. |
| Vertical Imager Pixel Spacing | The first component of Imager Pixel Spacing (0018,1164) in the Image IOD. See Section C.8.11.4 in PS3.3. |

TID 4021 Mammography CAD Geometry

All geometry Template invocations require specification of the location of the center of the object. Outline is optional.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4021. Mammography CAD Geometry

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|---|
| 1 | | | SCCOORD | EV (111010, DCM, "Center") | 1 | M | | GRAPHIC TYPE = {POINT} |
| 2 | > | R-SELECTED FROM | IMAGE | | 1 | M | | Shall reference an IMAGE Content Item in the (111028, DCM, "Image Library") |
| 3 | | | SCCOORD | EV (111041, DCM, "Outline") | 1 | U | | |
| 4 | > | R-SELECTED FROM | IMAGE | | 1 | M | | Shall reference the same Content Item as row 2 |
| 5 | | | SCCOORD | DCID 6166 "CAD Geometry Secondary Graphical Representation" | 1-n | U | | |
| 6 | > | R-SELECTED FROM | IMAGE | | 1 | M | | Shall reference the same Content Item as row 2 |

TID 4022 CAD Observation Context

This Template is invoked when a Content Item, which may be the "root" of a sub-tree, is paraphrased from a prior SR document.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4022. CAD Observation Context

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|--|----------------------|
| 1 | | | COMPOSITE | EV (111040, DCM, "Original Source") | 1 | MC | Shall be present if the original source is a DICOM object. | |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | | | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |

TID 4023 CAD Operating Points

This Template describes CAD operating points. The description is deliberately left flexible and optional to allow implementation at differing levels of complexity.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4023. CAD Operating Points

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|---|---|
| 1 | | HAS PROPERTIES | NUM | EV (111072, DCM, "Maximum CAD Operating Point") | 1 | M | | UNITS = DT ([arb'U], UCUM, "arbitrary unit") Value is restricted to being an integer |
| 2 | | HAS PROPERTIES | NUM | EV (111092, DCM, "Recommended CAD Operating Point") | 1 | U | | UNITS = DT ({0:n}, UCUM, "range: 0:n"), where n is the value specified in row 1 Value is restricted to being an integer |
| 3 | | HAS PROPERTIES | CONTAINER | EV (111093, DCM, "CAD Operating Point Table") | 1 | U | | |
| 4 | > | CONTAINS | CODE | EV (122698, DCM, "X-Concept") | 1 | M | | DCID 6048 "CAD Operating Point Axis Label" |
| 5 | > | CONTAINS | CODE | EV (122699, DCM, "Y-Concept") | 1 | M | | DCID 6048 "CAD Operating Point Axis Label" |
| 6 | > | CONTAINS | NUM | EV (111071, DCM, "CAD Operating Point") | 1-n | M | Number of instances of this row shall equal value of row 1, plus 1. | UNITS = DT ({0:n}, UCUM, "range: 0:n"), where n is the value of Row 1. Value is restricted to being an integer that is unique within the invocation of this Template. |
| 7 | >> | HAS PROPERTIES | TEXT | EV (111081, DCM, "CAD Operating Point Description") | 1 | U | | |
| 8 | >> | HAS PROPERTIES | NUM | The value of Row 4 | 1 | U | | |
| 9 | >> | HAS PROPERTIES | NUM | The value of Row 5 | 1 | U | | |

Content Item Descriptions

| | |
|---------------------------------|--|
| Maximum CAD Operating Point | The maximum possible value of CAD Operating Point for this type of Detection Performed. No CAD Operating Point value recorded in the CAD Processing and Findings Summary sub-tree of the report for this type of Detection Performed shall exceed this value. The report may or may not contain Rendering Intent = "Presentation Optional" detections that are assigned the maximum value. |
| Recommended CAD Operating Point | A number indicating which of the CAD operating points is recommended by the creator of a CAD SR instance as the first operating point to be used when rendering the CAD SR instance contents. Subsequent changes to the displayed operating point are implementation dependent. |

Chest CAD SR IOD Templates

The Templates that comprise the Chest CAD SR IOD are interconnected as in Figure A-9.

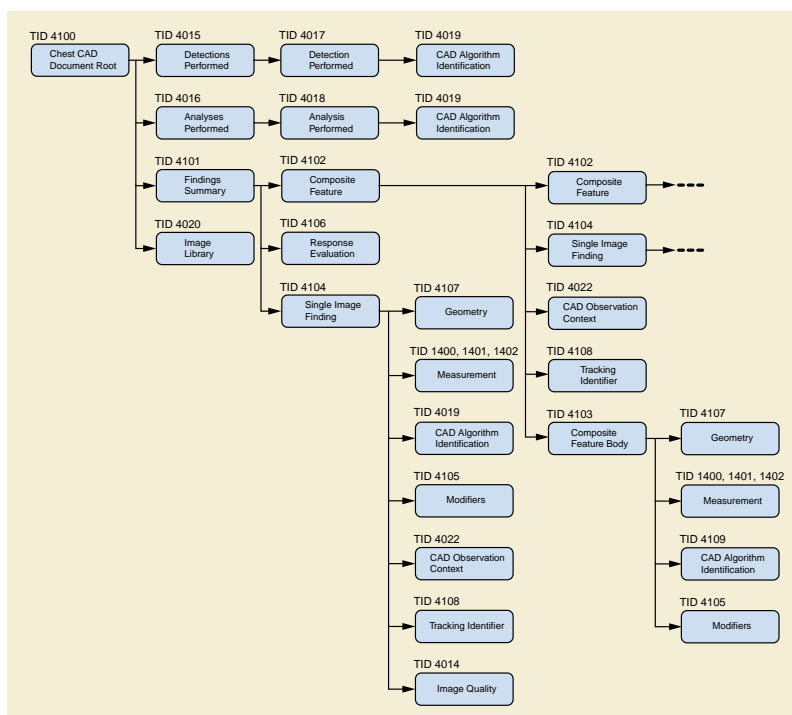


Figure A-9. Chest CAD SR IOD Template Structure

In Figure A-9, '...' indicates possible recursive application of subordinate Templates.

TID 4100 Chest CAD Document Root

This Template forms the top of a content tree that allows a chest CAD device to describe the results of detection and analysis of chest evidence. This Template, together with its subordinate Templates, describes both the results for presentation to radiologists and partial product results for consumption by chest CAD devices in subsequent chest CAD reports.

This Template defines a Container that contains an Image Library, the CAD results, and summaries of the detection and analysis algorithms performed. The Image Library contains the Image SOP Class and Instance UIDs, and selected attributes for each image referenced in either the algorithm summaries or chest CAD results.

The atomic CAD results of Single Image Findings and Composite Features are described in the Chest CAD Findings Summary sub-tree.

The Summary of Detections and Summary of Analyses sub-trees gather lists of algorithms attempted, grouped by success/failure status. Algorithms not attempted are not mentioned in these sub-trees. This information forms the basis for understanding why a chest CAD report may produce no (or fewer than anticipated) results. Chest CAD results are constructed bottom-up, starting from Single Image Findings (see TID 4104 "Chest CAD Single Image Finding"), associated as Composite Features (see TID 4102 "Chest CAD Composite Feature").

See Figure F.1-1 "Top Levels of Chest CAD SR Content Tree" in PS3.17.

Type: Non-Extensible
Order: Significant
Root: Yes

Table TID 4100. Chest CAD Document Root

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|--|---|
| 1 | | | CONTAINER | EV (112000, DCM, "Chest CAD Report") | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | CONTAINS | CONTAINER | EV (111028, DCM, "Image Library") | 1 | U | | |
| 4 | >> | CONTAINS | INCLUDE | DTID 4020 "CAD Image Library Entry" | 1-n | M | | \$ImageLaterality = DCID 244 "Laterality" \$ImageView = DCID 4010 "DX View" \$ImageViewMod = DCID 4011 "DX View Modifier" |
| 5 | > | CONTAINS | INCLUDE | DTID 4101 "Chest CAD Findings Summary" | 1 | M | | |
| 6 | > | CONTAINS | CODE | EV (111064, DCM, "Summary of Detections") | 1 | M | | DCID 6042 "Status of Results" |
| 7 | >> | INFERRED FROM | INCLUDE | DTID 4015 "CAD Detections Performed" | 1 | MC | Shall be present unless the value of row 6 is (111225, DCM, "Not Attempted") | \$DetectionCode = DCID 6101 "Chest Finding or Feature", DCID 6102 "Chest Finding or Feature Modifier" |
| 8 | > | CONTAINS | CODE | EV (111065, DCM, "Summary of Analyses") | 1 | M | | DCID 6042 "Status of Results" |
| 9 | >> | INFERRED FROM | INCLUDE | DTID 4016 "CAD Analyses Performed" | 1 | MC | Shall be present unless the value of row 8 is (111225, DCM, "Not Attempted") | \$AnalysisCode = DCID 6137 "Types of CAD Analysis" |

Content Item Descriptions

| | |
|----------------------|--|
| Image Library | <p>The "Image Library" section of the Content Tree (TID 4100 "Chest CAD Document Root", row 3) may include all Image SOP Instances from the Current Requested Procedure Evidence Sequence (0040,A375) attribute of the SR Document General module. If a portion of another instance of a Chest CAD SR IOD is duplicated in the "Chest CAD Findings Summary" section of the Content Tree, the "Image Library" may also include all Image Library Entries referenced from the duplicated portions of the Chest CAD SR.</p> <p>The Image Library is intended to be used in cases where the acquisition context Content Items differ from image to image, such as different views and/or laterality in projection X-Ray.</p> |
| Detections Performed | <p>The "Detections Performed" and "Analyses Performed" sections of the Content Tree (TID 4100 "Chest CAD Document Root", rows 7 and 9) together shall reference all Image SOP Instances included in the Current Requested Procedure Evidence Sequence (0040,A375) attribute of the SR Document General module.</p> |
| Analyses Performed | |

TID 4101 Chest CAD Findings Summary

The contents of this Template describe the findings and aggregate features that the chest CAD device detected for the chest evidence presented. This Template forms the chest CAD results sub-tree of the Chest CAD Document Root (TID 4100 "Chest CAD Document

Root"). The data from which the details are inferred are expressed in the Composite Features (see TID 4102 "Chest CAD Composite Feature") and/or Single Image Findings (see TID 4104 "Chest CAD Single Image Finding"), of which there may be several.

The sub-tree headed by this Template is illustrated in Figure F.1-2 "Example of CAD Processing and Findings Summary Sub-Tree of Chest CAD SR Content Tree" in PS3.17.

Type: Non-Extensible

Order: Significant

Root: No

Table TID 4101. Chest CAD Findings Summary

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|---|
| 1 | | | CODE | EV (111017, DCM, "CAD Processing and Findings Summary") | 1 | M | | DCID 6047 "CAD Processing and Findings Summary" |
| 2 | > | INFERRED FROM | INCLUDE | DTID 4102 "Chest CAD Composite Feature" | 1-n | U | | |
| 3 | > | INFERRED FROM | INCLUDE | DTID 4104 "Chest CAD Single Image Finding" | 1-n | U | | |
| 4 | > | HAS PROPERTIES | INCLUDE | DTID 4106 "Response Evaluation" | 1-n | U | | |

Content Item Descriptions

| | |
|-------------------------------------|--|
| CAD Processing and Findings Summary | <p>This code value is used to express if and why the Chest CAD Findings Summary sub-tree is empty. The Summary of Detections and Summary of Analyses sub-trees of the Document Root node contain detail about which (if any) algorithms succeeded or failed.</p> <p>If the code value indicates that there were no findings, then the code value can be used to determine whether chest CAD processing occurred successfully, without parsing the Summary of Detections and Summary of Analyses sub-trees.</p> |
|-------------------------------------|--|

TID 4102 Chest CAD Composite Feature

This Template collects a composite feature for a lesion, anatomy, non-lesion object, or correlation of related objects (see TID 4101 "Chest CAD Findings Summary"). The details of the composition are expressed in the Chest CAD Composite Feature Body (see TID 4103 "Chest CAD Composite Feature Body"). The data from which the details are inferred, are expressed in the Composite Features (see TID 4102 "Chest CAD Composite Feature") and/or Single Image Findings (see TID 4104 "Chest CAD Single Image Finding"), of which there may be several.

A Composite Feature shall be INFERRED FROM any combination of two or more Composite Features or Single Image Findings or mixture thereof.

Type: Non-Extensible

Order: Significant

Root: No

Table TID 4102. Chest CAD Composite Feature

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---------------------------------------|----|----------|-----------|--------------------------------------|
| 1 | | | CODE | EV (111015, DCM, "Composite Feature") | 1 | M | | DCID 6101 "Chest Finding or Feature" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|--|---|
| 2 | > | HAS CONCEPT MOD | CODE | EV (112023, DCM, "Composite Feature Modifier") | 1 | U | | DCID 6102 "Chest Finding or Feature Modifier" |
| 3 | > | HAS CONCEPT MOD | TEXT | EV (112050, DCM, "Anatomic Identifier") | 1 | U | | |
| 4 | > | HAS CONCEPT MOD | CODE | EV (112003, DCM, "Associated Chest Component") | 1 | MC | Shall be present IFF value of row 1 is (112005, DCM, "Radiographic anatomy") | DCID 6100 "Chest Component Categories" |
| 5 | > | HAS CONCEPT MOD | CODE | EV (112037, DCM, "Non-lesion Modifier") | 1 | UC | May be present IFF value of row 1 is (111102, DCM, "Non-lesion") | DCID 6139 "Non-lesion Modifiers" |
| 6 | > | HAS CONCEPT MOD | CODE | EV (112038, DCM, "Osseous Modifier") | 1 | UC | May be present IFF value of row 2 is from DCID 6114 "Osseous Anatomy Finding or Feature" | DCID 6115 "Osseous Anatomy Modifiers" |
| 7 | > | HAS CONCEPT MOD | CODE | EV (111056, DCM, "Rendering Intent") | 1 | M | | DCID 6034 "Intended Use of CAD Output" |
| 8 | > | HAS OBS CONTEXT | INCLUDE | DTID 4108 "Tracking Identifier" | 1 | U | | |
| 9 | > | HAS OBS CONTEXT | CODE | EV (112016, DCM, "Baseline Category") | 1 | U | | DCID 6145 "Baseline Category" |
| 10 | > | HAS OBS CONTEXT | INCLUDE | DTID 4022 "CAD Observation Context" | 1 | MC | Shall be present IFF this feature is duplicated from a different report than its parent. | |
| 11 | > | HAS OBS CONTEXT | INCLUDE | DTID 4019 "CAD Algorithm Identification" | 1 | M | | |
| 12 | > | HAS PROPERTIES | INCLUDE | DTID 4103 "Chest CAD Composite Feature Body" | 1 | M | | |
| 13 | > | INFERRED FROM | INCLUDE | DTID 4102 "Chest CAD Composite Feature" | 1-n | MC | At least two items shall be present: two of row 13, two of row 14, or one of each. | |
| 14 | > | INFERRED FROM | INCLUDE | DTID 4104 "Chest CAD Single Image Finding" | 1-n | MC | At least two items shall be present: two of row 13, two of row 14, or one of each. | |

Content Item Descriptions

| | |
|---------------------|--|
| Anatomic Identifier | An identifier of an anatomic feature when a multiplicity of features of that type may be present, such as "Rib 1", "Rib 2" or thoracic vertebrae "T1" or "T2". |
|---------------------|--|

| | |
|------------------|--|
| Rendering Intent | This Content Item constrains the SCP receiving the Chest CAD SR IOD in its use of the contents of this Template and its Target Content Items. Chest CAD devices may opt to use data marked "Not for Presentation" or "Presentation Optional" as input to subsequent chest CAD processing steps. Refer to Section O.2 "Structured Reporting Storage SOP Class SCU and SCP Behavior" in PS3.4. |
|------------------|--|

TID 4103 Chest CAD Composite Feature Body

The details of a composite feature are expressed in this Template. It is applied to Chest CAD Composite Feature (TID 4102 "Chest CAD Composite Feature").

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4103. Chest CAD Composite Feature Body

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|---|--|
| 1 | | | CODE | EV (111016, DCM, "Composite type") | 1 | M | | DCID 6035 "Composite Feature Relations" |
| 2 | | | CODE | EV (111057, DCM, "Scope of Feature") | 1 | M | | DCID 6036 "Scope of Feature" |
| 3 | | | NUM | EV (111011, DCM, "Certainty of feature") | 1 | U | | UNITS = EV (% , UCUM, "Percent") Value = 0 - 100 |
| 4 | | | INCLUDE | DTID 4107 "Chest CAD Geometry" | 1 | U | | |
| 5 | | | INCLUDE | DTID 1400 "Linear Measurement" | 1-n | U | | |
| 6 | | | INCLUDE | DTID 1401 "Area Measurement" | 1-n | U | | |
| 7 | | | INCLUDE | DTID 1402 "Volume Measurement" | 1-n | U | | |
| 8 | | | INCLUDE | DTID 4105 "Chest CAD Descriptors" | 1 | U | | |
| 9 | | | NUM | DCID 6133 "Chest Quantitative Temporal Difference Type" | 1-n | UC | May be present IFF the value of row 1 is (111153, DCM, "Target content items are related temporally") | |
| 10 | > | R-INFERRED FROM | NUM | | 2 | U | | The referenced numeric values shall have the same Concept Name. Their UNITS shall be the same as row 9 |
| 11 | | | CODE | EV (111049, DCM, "Qualitative Difference") | 1-n | UC | May be present only if the value of row 1 is (111153, DCM, "Target content items are related temporally") | DCID 6134 "Chest Qualitative Temporal Difference Type" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|----|----------|-----------|---|
| 12 | > | HAS PROPERTIES | TEXT | EV (111021, DCM, "Description of Change") | 1 | U | | |
| 13 | > | R-INFERRED FROM | CODE | | 2 | M | | The referenced Content Items shall have the same Concept Name and their code values shall be from the same context group. |

Content Item Descriptions

| | |
|------------------------|---|
| Certainty of Feature | The certainty of the CAD device that the feature analyzed and classified by the CODE, as specified in the Composite Feature parent Template, is in fact that type of feature. |
| Volume Measurement | If dimensions for a volume are to be stated in terms of length, width, and depth, then one shall use 3 instances of TID 1400 "Linear Measurement". |
| Row 9 | Values ≤ 0 are allowed. The two referenced numeric values are Target Content Items of the first generation Composite Feature or Single Image Finding children of this composite feature. Given the equation, $A - B$, the value representing A shall be referenced first. |
| Qualitative Difference | The two referenced code values are Target Content Items of the first generation Composite Feature or Single Image Finding children of this composite feature. |

TID 4104 Chest CAD Single Image Finding

This Template describes a single image finding for a lesion or other object. The details of the finding are expressed in this Template and/or more specific Templates.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4104. Chest CAD Single Image Finding

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|----|----------|--|---|
| 1 | | | CODE | EV (111059, DCM, "Single Image Finding") | 1 | M | | DCID 6101 "Chest Finding or Feature" |
| 2 | > | HAS CONCEPT MOD | CODE | EV (112024, DCM, "Single Image Finding Modifier") | 1 | U | | DCID 6102 "Chest Finding or Feature Modifier" |
| 3 | > | HAS CONCEPT MOD | TEXT | EV (112050, DCM, "Anatomic Identifier") | 1 | U | | |
| 4 | > | HAS CONCEPT MOD | CODE | EV (112003, DCM, "Associated Chest Component") | 1 | MC | Shall be present IFF value of row 1 is (112005, DCM, "Radiographic anatomy") | DCID 6100 "Chest Component Categories" |
| 5 | > | HAS CONCEPT MOD | CODE | EV (112037, DCM, "Non-lesion Modifier") | 1 | UC | May be present IFF value of row 1 is (111102, DCM, "Non-lesion") | DCID 6139 "Non-lesion Modifiers" |
| 6 | > | HAS CONCEPT MOD | CODE | EV (111056, DCM, "Rendering Intent") | 1 | M | | DCID 6034 "Intended Use of CAD Output" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|--|---|
| 7 | >> | HAS PROPERTIES | NUM | EV (111071, DCM, "CAD Operating Point") | 1 | UC | IFF value of row 6 is (111151, DCM, "Presentation Optional") and row 1 of TID 4023 "CAD Operating Points" is present for the finding identified in row 1 | UNITS = DT ({1:n}, UCUM, "range: 1:n"), where n is the maximum specified in Row 1 of TID 4023 "CAD Operating Points" for the finding identified in row 1. Value is restricted to being an integer |
| 8 | > | HAS OBS CONTEXT | INCLUDE | DTID 4108 "Tracking Identifier" | 1 | U | | |
| 9 | > | HAS OBS CONTEXT | CODE | EV (112016, DCM, "Baseline Category") | 1 | U | | DCID 6145 "Baseline Category" |
| 10 | > | HAS OBS CONTEXT | INCLUDE | DTID 4022 "CAD Observation Context" | 1 | MC | Shall be present IFF this finding is duplicated from a different report than its parent. | |
| 11 | > | HAS OBS CONTEXT | INCLUDE | DTID 4019 "CAD Algorithm Identification" | 1 | M | | |
| 12 | > | HAS PROPERTIES | NUM | EV (111012, DCM, "Certainty of Finding") | 1 | U | | UNITS = EV (% , UCUM, "Percent") Value = 0 - 100 |
| 13 | > | HAS PROPERTIES | TEXT | EV (111058, DCM, "Selected Region Description") | 1 | MC | Shall be present IFF value of row 1 is (111099, DCM, "Selected region") | |
| 14 | > | HAS PROPERTIES | INCLUDE | DTID 4107 "Chest CAD Geometry" | 1 | MC | Shall be present unless value of row 1 is (111101, DCM, "Image quality") | |
| 15 | > | HAS PROPERTIES | INCLUDE | DTID 1400 "Linear Measurement" | 1-n | U | | |
| 16 | > | HAS PROPERTIES | INCLUDE | DTID 1401 "Area Measurement" | 1-n | U | | |
| 17 | > | HAS PROPERTIES | INCLUDE | DTID 1402 "Volume Measurement" | 1-n | U | | |
| 18 | > | HAS PROPERTIES | INCLUDE | DTID 4105 "Chest CAD Descriptors" | 1 | U | | |
| 19 | > | INFERRED FROM | IMAGE | | 1 | MC | Shall be present IFF value of row 1 is (111101, DCM, "Image quality") and rows 20 and 21 are not present | |
| 20 | > | R-INFERRED FROM | IMAGE | | 1 | MC | Shall be present IFF value of row 1 is (111101, DCM, "Image quality") and rows 19 and 21 are not present | Shall reference an IMAGE Content Item in the (111028, DCM, "Image Library") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|----------------------------------|-----|----------|--|--|
| 21 | > | INFERRED FROM | SCOORD | EV (111030, DCM, "Image Region") | 1-n | MC | Shall be present IFF value of row 1 is (111101, DCM, "Image quality") and rows 19 and 20 are not present | |
| 22 | >> | SELECTED FROM | IMAGE | | 1 | MC | XOR row 23 | All the row 21 Content Items in a single invocation of this Template shall reference the same IMAGE |
| 23 | >> | R-SELECTED FROM | IMAGE | | 1 | MC | XOR row 22 | All the row 21 Content Items in a single invocation of this Template shall reference the same IMAGE Content Item in the (111028, DCM, "Image Library") |
| 24 | > | HAS PROPERTIES | INCLUDE | DTID 4014 "CAD Image Quality" | 1 | MC | Shall be present IFF value of row 1 is (111101, DCM, "Image quality") | \$QualityFinding = DCID 6135 "Image Quality Finding" \$QualityStandard = DCID 6136 "Chest Types of Quality Control Standard" |

Content Item Descriptions

| | |
|----------------------|--|
| Anatomic Identifier | An identifier of an anatomic feature when a multiplicity of features of that type may be present, such as "Rib 1", "Rib 2" or thoracic vertebrae "T1" or "T2". |
| Rendering Intent | This Content Item constrains the SCP receiving the Chest CAD SR IOD in its use of the contents of this Template and its Target Content Items. Chest CAD devices may opt to use data marked "Not for Presentation" or "Presentation Optional" as input to subsequent chest CAD processing steps. Refer to Section O.2 "Structured Reporting Storage SOP Class SCU and SCP Behavior" in PS3.4. |
| CAD Operating Point | Additional information to use when Rendering Intent is "Presentation Optional". A CAD Operating Point of zero is not sent, and is encoded as a Rendering Intent of "Presentation Required". See Section O.2 "Structured Reporting Storage SOP Class SCU and SCP Behavior" in PS3.4 and Section E.4 "CAD Operating Point" in PS3.17. |
| Certainty of Finding | The certainty of the CAD device that the finding detected and classified by the Single Image Finding CODE specified is in fact that type of finding. |

TID 4105 Chest CAD Descriptors

This Template provides qualitative detail for a Single Image Finding or Composite Feature. It is applied to Chest CAD Composite Feature (TID 4102 "Chest CAD Composite Feature") and Chest CAD Single Image Finding (TID 4104 "Chest CAD Single Image Finding").

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4105. Chest CAD Descriptors

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|-----|----------|-----------|--|
| 1 | | | CODE | EV (112025, DCM, "Size Descriptor") | 1 | U | | DCID 6118 "Size Descriptor" |
| 2 | | | CODE | EV (112026, DCM, "Width Descriptor") | 1 | U | | DCID 6107 "Width Descriptor" |
| 3 | | | CODE | EV (112015, DCM, "Border shape") | 1 | U | | DCID 6119 "Chest Border Shape" |
| 4 | | | CODE | EV (112007, DCM, "Border definition") | 1 | U | | DCID 6120 "Chest Border Definition" |
| 5 | | | CODE | EV (112014, DCM, "Orientation Descriptor") | 1 | U | | DCID 6121 "Chest Orientation Descriptor" |
| 6 | | | CODE | EV (112009, DCM, "Type of Content") | 1-n | U | | DCID 6122 "Chest Content Descriptor" |
| 7 | | | CODE | EV (112027, DCM, "Opacity Descriptor") | 1 | U | | DCID 6123 "Chest Opacity Descriptor" |
| 8 | | | CODE | EV (112013, DCM, "Location in Chest") | 1 | U | | DCID 6124 "Location in Chest" |
| 9 | | | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 244 "Laterality" |
| 10 | | | CODE | EV (112006, DCM, "Distribution Descriptor") | 1-n | U | | DCID 6128 "Chest Distribution Descriptor" |
| 11 | | | CODE | EV (112028, DCM, "Abnormal Distribution of Anatomic Structure") | 1 | U | | DCID 6108 "Chest Anatomic Structure Abnormal Distribution" |
| 12 | | | CODE | EV (112008, DCM, "Site involvement") | 1-n | U | | DCID 6129 "Chest Site Involvement" |
| 13 | | | CODE | EV (G-C197, SRT, "Severity") | 1 | U | | DCID 6130 "Severity Descriptor" |
| 14 | | | CODE | EV (112010, DCM, "Texture Descriptor") | 1 | U | | DCID 6131 "Chest Texture Descriptor" |
| 15 | | | CODE | EV (112030, DCM, "Calcification Descriptor") | 1 | U | | DCID 6132 "Chest Calcification Descriptor" |
| 16 | | | NUM | DCID 6142 "Calculated Value" | 1-n | U | | |
| 17 | > | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | M | | DCID 6140 "Calculation Methods" |
| 18 | > | INFERRED FROM | NUM | EV (112032, DCM, "Threshold Attenuation Coefficient") | 1 | U | | UNITS = EV ([hnsfU], UCUM, "Hounsfield unit") |
| 19 | > | INFERRED FROM | TEXT | EV (112034, DCM, "Calculation Description") | 1 | U | | |
| 20 | | | NUM | DCID 6141 "Attenuation Coefficient Measurements" | 1-n | U | | UNITS = EV ([hnsfU], UCUM, "Hounsfield unit") |

TID 4106 Response Evaluation

This Template provides a means to report response evaluation to cancer treatment, based on a method such as RECIST or WHO.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4106. Response Evaluation

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (112020, DCM, "Response Evaluation") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | CODE | EV (112021, DCM, "Response Evaluation Method") | 1 | M | | DT (112022, DCM, "RECIST") or DT (112029, DCM, "WHO") |
| 3 | > | CONTAINS | CODE | EV (112048, DCM, "Current Response") | 1 | U | | DCID 6143 "Lesion Response" |
| 4 | > | CONTAINS | CODE | EV (112049, DCM, "Best Overall Response") | 1 | U | | DCID 6143 "Lesion Response" |
| 5 | > | CONTAINS | NUM | EV (112051, DCM, "Measurement of Response") | 1 | U | | UNITS not specified |

TID 4107 Chest CAD Geometry

All geometry Template invocations require specification of either the location of the center of the object, the outline, or both. Geometry is a property of single image findings (see TID 4104 "Chest CAD Single Image Finding") and composite features (see TID 4103 "Chest CAD Composite Feature Body").

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4107. Chest CAD Geometry

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|-----------------------------|----|----------|---|---|
| 1 | | | SCoord | EV (111010, DCM, "Center") | 1 | MC | At least one of rows 1, 4 shall be present. | GRAPHIC TYPE = {POINT} |
| 2 | > | SELECTED FROM | IMAGE | | 1 | MC | XOR row 3 | |
| 3 | > | R-SELECTED FROM | IMAGE | | 1 | MC | XOR row 2 | Shall reference an IMAGE Content Item in the (111028, DCM, "Image Library") |
| 4 | | | SCoord | EV (111041, DCM, "Outline") | 1 | MC | At least one of rows 1, 4 shall be present. | |
| 5 | > | SELECTED FROM | IMAGE | | 1 | MC | XOR row 6 | Shall reference the same Content Item as row 2 |
| 6 | > | R-SELECTED FROM | IMAGE | | 1 | MC | XOR row 5 | Shall reference the same Content Item as row 3 |

TID 4108 Tracking Identifier

This Template provides a means to identify an object for longitudinal tracking, potentially across multiple Structured Reports, over time.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4108. Tracking Identifier

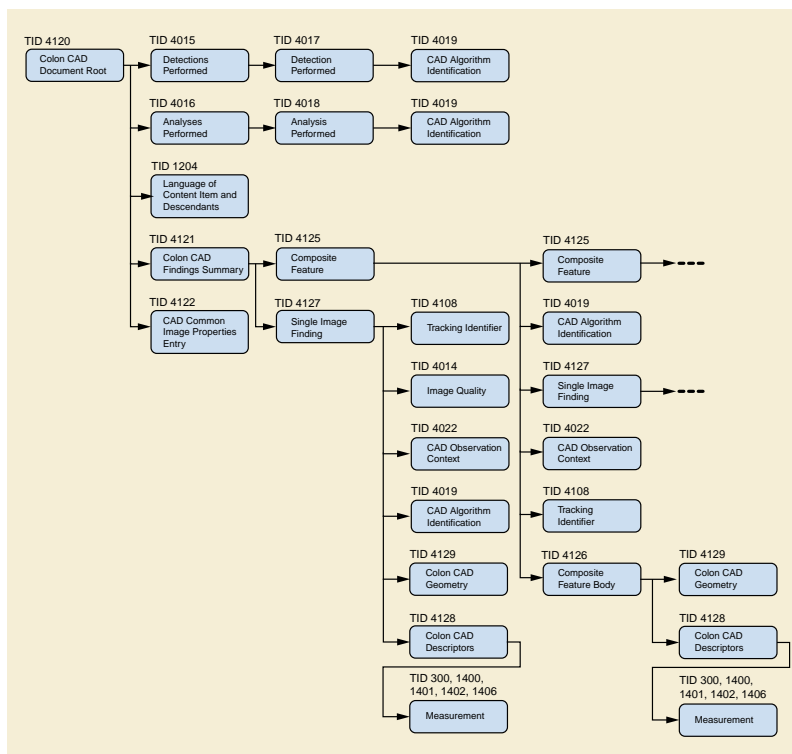
| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|--|----|----------|--|---|
| 1 | | | TEXT | EV (112039, DCM, "Tracking Identifier") | 1 | MC | At least one of row 1 or 2 shall be present. | A string of characters with case being non-significant. Leading and trailing spaces and control characters are forbidden. |
| 2 | | | UIDREF | EV (112040, DCM, "Tracking Unique Identifier") | 1 | MC | At least one of row 1 or 2 shall be present. | |

Content Item Descriptions

| | |
|----------------------------|---|
| Tracking Identifier | A human readable identifier for longitudinal tracking, e.g., "Watchlist Nodule 1". |
| Tracking Unique Identifier | This is distinct from the Observation UID (0040,A171) that may be present in the data set for each Content Item, which identifies only a specific observation, not an object tracked over time, and each tracked object may have many observations. |

Colon CAD SR IOD Templates

The Templates that comprise the Colon CAD SR IOD are interconnected as in Figure A-9b. In Figure A-9b, '...' indicates possible recursive application of subordinate Templates.

**Figure A-9b. Colon CAD SR IOD Template Structure**

TID 4120 Colon CAD Document Root

This Template forms the top of a content tree that allows a colon CAD device to describe the results of detection and analysis of colon evidence. This Template, together with its subordinate Templates, describes both the results for presentation to radiologists and partial product results for consumption by colon CAD devices in subsequent colon CAD reports.

This Template defines a Container that contains the CAD results and summaries of the detection and analysis algorithms performed.

The atomic CAD results of Single Image Findings and Composite Features are described in the Colon CAD Findings Summary sub-tree.

The Summary of Detections and Summary of Analyses sub-trees gather lists of algorithms attempted, grouped by success/failure status. Algorithms not attempted are not mentioned in these sub-trees. This information forms the basis for understanding why a colon CAD report may produce no (or fewer than anticipated) results. Colon CAD results are constructed bottom-up, starting from Single Image Findings (see TID 4127 "Colon CAD Single Image Finding"), associated as Composite Features (see TID 4125 "Colon CAD Composite Feature").

See Figure SS.1-1 "Top Levels of Colon CAD SR Content Tree" in PS3.17.

Type: Non-Extensible
Order: Significant
Root: Yes

Table TID 4120. Colon CAD Document Root

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|--|--|
| 1 | | | CONTAINER | EV (112220, DCM, "Colon CAD Report") | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | CONTAINS | INCLUDE | DTID 4122 "CAD Common Image Properties Entry" | 1-n | M | | |
| 4 | > | CONTAINS | INCLUDE | DTID 4121 "Colon CAD Findings Summary" | 1 | M | | |
| 5 | > | CONTAINS | CODE | EV (111064, DCM, "Summary of Detections") | 1 | M | | DCID 6042 "Status of Results" |
| 6 | >> | INFERRED FROM | INCLUDE | DTID 4015 "CAD Detections Performed" | 1 | MC | Shall be present unless the value of row 5 is (111225, DCM, "Not Attempted") | \$DetectionCode = DCID 6201 "Colon Finding or Feature" |
| 7 | > | CONTAINS | CODE | EV (111065, DCM, "Summary of Analyses") | 1 | M | | DCID 6042 "Status of Results" |
| 8 | >> | INFERRED FROM | INCLUDE | DTID 4016 "CAD Analyses Performed" | 1 | MC | Shall be present unless the value of row 7 is (111225, DCM, "Not Attempted") | \$AnalysisCode = DCID 6137 "Types of CAD Analysis" |

Content Item Descriptions

| | |
|----------------------|---|
| Detections Performed | The "Detections Performed" and "Analyses Performed" sections of the Content Tree (TID 4120 "Colon CAD Document Root", rows 6 and 8) together shall reference all Image SOP Instances included in the Current Requested Procedure Evidence Sequence (0040,A375) attribute of the SR Document General module. |
| Analyses Performed | |

TID 4121 Colon CAD Findings Summary

The contents of this Template describe the findings and aggregate features that the colon CAD device detected for the colon evidence presented. This Template forms the colon CAD results sub-tree of the Colon CAD Document Root (TID 4120 "Colon CAD Document Root"). The data from which the details are inferred are expressed in the Composite Features (see TID 4125 "Colon CAD Composite Feature") and/or Single Image Findings (see TID 4127 "Colon CAD Single Image Finding"), of which there may be several.

The sub-tree headed by this Template is illustrated in Figure F.1-2 "Example of CAD Processing and Findings Summary Sub-Tree of Chest CAD SR Content Tree" in PS3.17.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4121. Colon CAD Findings Summary

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|---|
| 1 | | | CODE | EV (111017, DCM, "CAD Processing and Findings Summary") | 1 | M | | DCID 6047 "CAD Processing and Findings Summary" |
| 2 | > | HAS PROPERTIES | CODE | EV (112222, DCM, "Colon Overall Assessment") | 1 | U | | DCID 6200 "Colon Overall Assessment" |
| 3 | > | INFERRED FROM | INCLUDE | DTID 4125 "Colon CAD Composite Feature" | 1-n | U | | |
| 4 | > | INFERRED FROM | INCLUDE | DTID 4127 "Colon CAD Single Image Finding" | 1-n | U | | |

Content Item Descriptions

| | |
|-------------------------------------|--|
| CAD Processing and Findings Summary | <p>This code value is used to express if and why the Colon CAD Findings Summary sub-tree is empty. The Summary of Detections and Summary of Analyses sub-trees of the Document Root node contain detail about which (if any) algorithms succeeded or failed.</p> <p>If the code value indicates that there were no findings, then the code value can be used to determine whether colon CAD processing occurred successfully, without parsing the Summary of Detections and Summary of Analyses sub-trees.</p> |
|-------------------------------------|--|

TID 4122 CAD Common Image Properties Entry

Each instance of the CAD Common Image Properties Entry Template contains selected attributes for a set of parallel contiguous equally spaced slices (with identical properties) from which CAD findings are derived.

Type: Extensible
Order: Significant
Root: No

Table TID 4122. CAD Common Image Properties Entry

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (112224, DCM, "Image Set Properties") | 1 | M | | |
| 2 | > | CONTAINS | UIDREF | EV (112227, DCM, "Frame of Reference UID") | 1 | M | | |
| 3 | > | CONTAINS | UIDREF | EV (110180, DCM, "Study Instance UID") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|--|----|----------|---|---|
| 4 | > | CONTAINS | DATE | EV (111060, DCM, "Study Date") | 1 | M | | Shall be taken from Study Date (0008,0020) in the Image Instances. |
| 5 | > | CONTAINS | TIME | EV (111061, DCM, "Study Time") | 1 | M | | Shall be taken from Study Time (0008,0030) in the Image Instances. |
| 6 | > | CONTAINS | CODE | EV (121139, DCM, "Modality") | 1 | M | | Shall be taken from Modality (0008,0060) in the Image Instances. |
| 7 | > | CONTAINS | NUM | EV (111026, DCM, "Horizontal Pixel Spacing") | 1 | M | | Shall be taken from value 2 of Pixel Spacing (0028,0030) in the Image Instances. UNITS = EV (mm/{pixel}, UCUM, "millimeters per pixel") |
| 8 | > | CONTAINS | NUM | EV (111066, DCM, "Vertical Pixel Spacing") | 1 | M | | Shall be taken from value 1 of Pixel Spacing (0028,0030) in the Image Instances. UNITS = EV (mm/{pixel}, UCUM, "millimeters per pixel") |
| 9 | > | CONTAINS | NUM | EV (112225, DCM, "Slice Thickness") | 1 | M | | Shall be taken from Slice Thickness (0018,0050) in the Image Instances. UNITS = EV (mm, UCUM, "millimeter") |
| 10 | > | CONTAINS | NUM | EV (112226, DCM, "Spacing between slices") | 1 | M | | Shall be computed from the Image Position (Patient) (0020,0032) projected onto the normal to the Image Orientation (Patient) (0020,0037); may or may not be the same as the Spacing Between Slices (0018,0088) if present. UNITS = EV (mm, UCUM, "millimeter") |
| 11 | > | CONTAINS | CODE | EV (112228, DCM, "Recumbent Patient Position with respect to gravity") | 1 | MC | Required if Patient Position (0018,5100) is present in the image instances and has a value. | Shall be derived from Patient Position (0018,5100) in the Image Instances. DCID 6206 "Recumbent Patient Orientation for Colon" |

TID 4125 Colon CAD Composite Feature

This Template collects a composite feature for a lesion, non-lesion object, or correlation of related objects (see TID 4121 "Colon CAD Findings Summary"). The details of the composition are expressed in the Colon CAD Composite Feature Body (see TID 4126 "Colon CAD Composite Feature Body"). The data from which the details are inferred, are expressed in the Composite Features (see TID 4125 "Colon CAD Composite Feature") and/or Single Image Findings (see TID 4127 "Colon CAD Single Image Finding"), of which there may be several.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4125. Colon CAD Composite Feature

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|---|--|
| 1 | | | CODE | EV (111015, DCM, "Composite Feature") | 1 | M | | DCID 6201 "Colon Finding or Feature" |
| 2 | > | HAS CONCEPT MOD | CODE | EV (112023, DCM, "Composite Feature Modifier") | 1 | U | | DCID 6202 "Colon Finding or Feature Modifier" |
| 3 | > | HAS CONCEPT MOD | CODE | EV (111056, DCM, "Rendering Intent") | 1 | M | | DCID 6034 "Intended Use of CAD Output" |
| 4 | >> | HAS PROPERTIES | NUM | EV (111071, DCM, "CAD Operating Point") | 1 | UC | IFF value of row 3 is (111151, DCM, "Presentation Optional") and row 1 of TID 4023 "CAD Operating Points" is present for the feature identified in row 1. | UNITS = DT ({1:n}, UCUM, "range: 1:n"), where n is the maximum specified in Row 1 of TID 4023 "CAD Operating Points" for the feature identified in row 1. Value is restricted to being an integer. |
| 5 | > | HAS OBS CONTEXT | INCLUDE | DTID 4108 "Tracking Identifier" | 1 | U | | |
| 6 | > | HAS OBS CONTEXT | INCLUDE | DTID 4022 "CAD Observation Context" | 1 | MC | Shall be present IFF this feature is duplicated from a different report than its parent. | |
| 7 | > | HAS OBS CONTEXT | INCLUDE | DTID 4019 "CAD Algorithm Identification" | 1 | M | | |
| 8 | > | HAS PROPERTIES | INCLUDE | DTID 4126 "Colon CAD Composite Feature Body" | 1 | M | | |
| 9 | > | INFERRED FROM | INCLUDE | DTID 4125 "Colon CAD Composite Feature" | 1-n | U | | |
| 10 | > | INFERRED FROM | INCLUDE | DTID 4127 "Colon CAD Single Image Finding" | 1-n | U | | |

Content Item Descriptions

| | |
|------------------|--|
| Rendering Intent | This Content Item constrains the SCP receiving the Colon CAD SR IOD in its use of the contents of this Template and its Target Content Items. Colon CAD devices may opt to use data marked "Not for Presentation" or "Presentation Optional" as input to subsequent colon CAD processing steps. Refer to Section O.2 "Structured Reporting Storage SOP Class SCU and SCP Behavior" in PS3.4. |
|------------------|--|

TID 4126 Colon CAD Composite Feature Body

The details of a composite feature are expressed in this Template. It is applied to Colon CAD Composite Feature (TID 4125 "Colon CAD Composite Feature").

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4126. Colon CAD Composite Feature Body

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|---|---|
| 1 | | | CODE | EV (111016, DCM, "Composite type") | 1 | M | | DCID 6035 "Composite Feature Relations" |
| 2 | | | CODE | EV (111057, DCM, "Scope of Feature") | 1 | M | | DCID 6036 "Scope of Feature" |
| 3 | | | NUM | EV (111011, DCM, "Certainty of feature") | 1 | U | | UNITS = EV (% , UCUM, "Percent") Value = 0 - 100 |
| 4 | | | INCLUDE | DTID 4129 "Colon CAD Geometry" | 1 | U | | |
| 5 | | | INCLUDE | DTID 4128 "Colon CAD Descriptors" | 1 | U | | |
| 6 | | | NUM | DCID 6207 "Colon Quantitative Temporal Difference Type" | 1-n | UC | May be present IFF the value of row 1 is (111153, DCM, "Target content items are related temporally") | |
| 7 | > | R-INFERRED FROM | NUM | | 2 | U | | The referenced numeric values shall have the same Concept Name. Their UNITS shall be the same as row 6 |
| 8 | | | CODE | EV (111049, DCM, "Qualitative Difference") | 1-n | UC | May be present only if the value of row 1 is (111153, DCM, "Target content items are related temporally") | DCID 6134 "Chest Qualitative Temporal Difference Type" |
| 9 | > | HAS PROPERTIES | TEXT | EV (111021, DCM, "Description of Change") | 1 | U | | |
| 10 | > | R-INFERRED FROM | CODE | | 2 | M | | The referenced Content Items shall have the same Concept Name and their code values shall be from the same context group. |

Content Item Descriptions

| | |
|------------------------|--|
| Certainty of Feature | The CAD device's certainty that the feature analyzed and classified by the CODE, as specified in the Composite Feature parent Template is, in fact, that type of feature. |
| Row 6 | Values ≤ 0 are allowed. The two referenced numeric values are Target Content Items of the first generation Composite Feature or Single Image Finding children of this composite feature. Given the equation, A - B, the value representing A shall be referenced first. |
| Qualitative Difference | The two referenced code values are Target Content Items of the first generation Composite Feature or Single Image Finding children of this composite feature. |

TID 4127 Colon CAD Single Image Finding

This Template describes a single image finding for a lesion or other object. The details of the finding are expressed in this Template and/or more specific Templates.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4127. Colon CAD Single Image Finding

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|----|----------|--|--|
| 1 | | | CODE | EV (111059, DCM, "Single Image Finding") | 1 | M | | DCID 6201 "Colon Finding or Feature" |
| 2 | > | HAS CONCEPT MOD | CODE | EV (112024, DCM, "Single Image Finding Modifier") | 1 | U | | DCID 6202 "Colon Finding or Feature Modifier" |
| 3 | > | HAS CONCEPT MOD | CODE | EV (111056, DCM, "Rendering Intent") | 1 | M | | DCID 6034 "Intended Use of CAD Output" |
| 4 | >> | HAS PROPERTIES | NUM | EV (111071, DCM, "CAD Operating Point") | 1 | UC | IFF value of row 3 is (111151, DCM, "Presentation Optional") and row 1 of TID 4023 "CAD Operating Points" is present for the finding identified in row 1 | UNITS = DT ({1:n}, UCUM, "range: 1:n"), where n is the maximum specified in Row 1 of TID 4023 "CAD Operating Points" for the finding identified in row 1. Value is restricted to being an integer. |
| 5 | > | HAS OBS CONTEXT | INCLUDE | DTID 4108 "Tracking Identifier" | 1 | U | | |
| 6 | > | HAS OBS CONTEXT | INCLUDE | DTID 4022 "CAD Observation Context" | 1 | MC | Shall be present IFF this finding is duplicated from a different report than its parent. | |
| 7 | > | HAS OBS CONTEXT | INCLUDE | DTID 4019 "CAD Algorithm Identification" | 1 | M | | |
| 8 | > | HAS PROPERTIES | NUM | EV (111012, DCM, "Certainty of Finding") | 1 | U | | UNITS = EV (% , UCUM, "Percent") Value = 0 - 100 |
| 9 | > | HAS PROPERTIES | TEXT | EV (111058, DCM, "Selected Region Description") | 1 | MC | Shall be present IFF value of row 1 is (111099, DCM, "Selected region") | |
| 10 | > | HAS PROPERTIES | INCLUDE | DTID 4129 "Colon CAD Geometry" | 1 | MC | Shall be present unless value of row 1 is (111101, DCM, "Image quality") | |
| 11 | > | HAS PROPERTIES | INCLUDE | DTID 4128 "Colon CAD Descriptors" | 1 | U | | |
| 12 | > | INFERRED FROM | IMAGE | | 1 | MC | Shall be present IFF value of row 1 is (111101, DCM, "Image quality") and row 13 is not present | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|----------------------------------|-----|----------|---|---|
| 13 | > | INFERRED FROM | SCOORD | EV (111030, DCM, "Image Region") | 1-n | MC | Shall be present IFF value of row 1 is (111101, DCM, "Image quality") and row 12 is not present | |
| 14 | >> | SELECTED FROM | IMAGE | | 1 | M | | All the row 13 Content Items in a single invocation of this Template shall reference the same IMAGE |
| 15 | > | HAS PROPERTIES | INCLUDE | DTID 4014 "CAD Image Quality" | 1 | MC | Shall be present IFF value of row 1 is (111101, DCM, "Image quality") | \$QualityFinding = DCID 6135 "Image Quality Finding" \$QualityStandard = DCID 6208 "Colon Types of Quality Control Standard" |

Content Item Descriptions

| | |
|----------------------|--|
| Rendering Intent | This Content Item constrains the SCP receiving the Colon CAD SR IOD in its use of the contents of this Template and its Target Content Items. Colon CAD devices may opt to use data marked "Not for Presentation" or "Presentation Optional" as input to subsequent colon CAD processing steps. Refer to Section O.2 "Structured Reporting Storage SOP Class SCU and SCP Behavior" in PS3.4. |
| CAD Operating Point | Additional information to use when Rendering Intent is "Presentational Optional". A CAD Operating Point of zero is not sent, and is encoded as a Rendering Intent of "Presentation Required". See Section O.2 "Structured Reporting Storage SOP Class SCU and SCP Behavior" in PS3.4 and Section E.4 "CAD Operating Point" in PS3.17. |
| Certainty of Finding | The certainty of the CAD device that the finding detected and classified by the Single Image Finding CODE specified is in fact that type of finding. |

TID 4128 Colon CAD Descriptors

This Template provides qualitative detail for a Single Image Finding or Composite Feature. It is applied to Colon CAD Composite Feature (TID 4125 "Colon CAD Composite Feature") and Colon CAD Single Image Finding (TID 4127 "Colon CAD Single Image Finding").

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4128. Colon CAD Descriptors

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|-----|----------|-----------|--|
| 1 | | | CODE | EV (G-C504, SRT, "Associated Morphology") | 1-n | U | | DCID 6209 "Colon Morphology Descriptor" |
| 2 | | | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | U | | DCID 6210 "Location in Intestinal Tract" |
| 3 | | | CODE | EV (111014, DCM, "Clockface or region") | 1 | U | | DCID 6205 "Clockface Location for Colon" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|--|
| 4 | | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 6212 "Calculated Value for Colon Findings" \$Derivation = DCID 6140 "Calculation Methods" \$DerivationParameter = EV (112032, DCM, "Threshold Attenuation Coefficient") \$DerivationParameterUnits = EV ([hnsfU], UCUM, "Hounsfield unit") |
| 5 | | | INCLUDE | DTID 1400 "Linear Measurement" | 1-n | U | | |
| 6 | | | INCLUDE | DTID 1401 "Area Measurement" | 1-n | U | | |
| 7 | | | INCLUDE | DTID 1402 "Volume Measurement" | 1-n | U | | |
| 8 | | | INCLUDE | DTID 1406 "Three Dimensional Linear Measurement" | 1-n | U | | |
| 9 | | | NUM | DCID 6141 "Attenuation Coefficient Measurements" | 1-n | U | | UNITS = EV ([hnsfU], UCUM, "Hounsfield unit") |
| 10 | > | HAS PROPERTIES | CODE | EV (112009, DCM, "Type of Content") | 1 | U | | DCID 6211 "Colon CAD Material Description" |

Content Item Descriptions

| | |
|-------|--|
| Row 3 | 12 o'clock position is the anterior direction of the patient regardless of the positioning with respect to gravity; clockwise is from the point of view of an observer located closer to the anus than the finding being observed. |
|-------|--|

TID 4129 Colon CAD Geometry

All geometry Template invocations require specification of either the location of the center of the object, the outline, or both. Geometry is a property of single image findings (see TID 4127 "Colon CAD Single Image Finding") and composite features (see TID 4125 "Colon CAD Composite Feature").

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4129. Colon CAD Geometry

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|----------------------------|----|----------|---|------------------------|
| 1 | | | SCOORD | EV (111010, DCM, "Center") | 1 | MC | At least one of rows 1, 3, 4, 6 or 10 shall be present. | GRAPHIC TYPE = {POINT} |
| 2 | > | SELECTED FROM | IMAGE | | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|----------|---|-----|----------|---|---|
| 3 | | | SCOORD3D | EV (111010, DCM, "Center") | 1 | MC | At least one of rows 1, 3, 4, 6 or 10 shall be present. | GRAPHIC TYPE = {POINT} |
| 4 | | | SCOORD | EV (111041, DCM, "Outline") | 1 | MC | At least one of rows 1, 3, 4, 6 or 10 shall be present. | |
| 5 | > | SELECTED FROM | IMAGE | | 1 | M | | |
| 6 | | | SCOORD3D | EV (111041, DCM, "Outline") | 1 | MC | At least one of rows 1, 3, 4, 6 or 10 shall be present. | |
| 7 | | | SCOORD | DCID 6166 "CAD Geometry Secondary Graphical Representation" | 1-n | U | | |
| 8 | > | SELECTED FROM | IMAGE | | 1 | M | | |
| 9 | | | SCOORD3D | DCID 6166 "CAD Geometry Secondary Graphical Representation" | 1-n | U | | |
| 10 | | | IMAGE | EV (112229, DCM, "Identifying Segment") | 1 | MC | At least one of rows 1, 3, 4, 6 or 10 shall be present. | Referenced image shall be a Segmentation and the Content Item shall include Referenced Segment Number (0062,000B) |

Breast Imaging Report Templates

The Templates that comprise the Breast Imaging Report are interconnected as in Figure A-10.

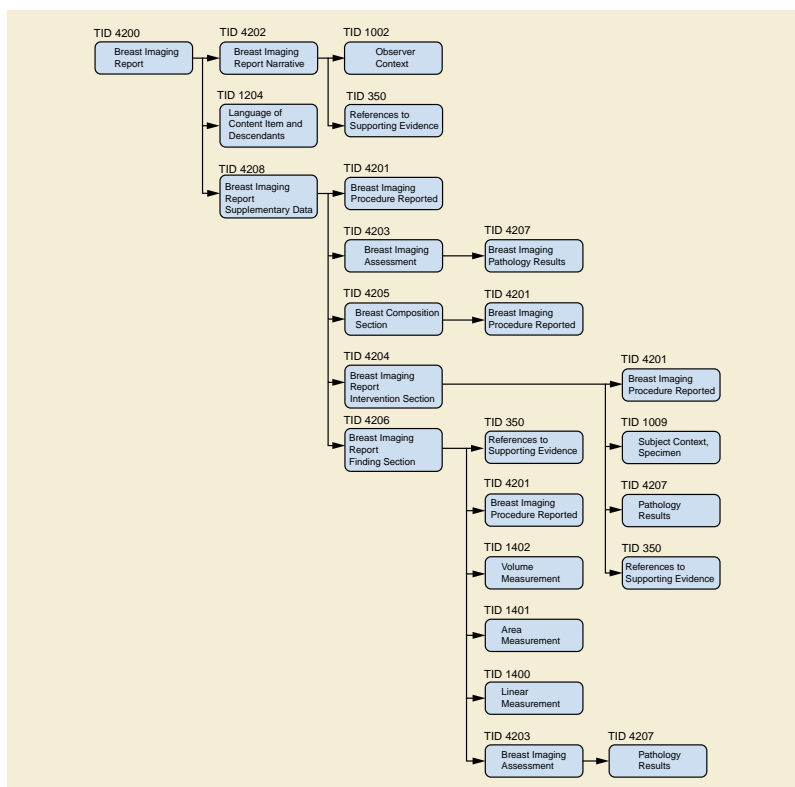


Figure A-10. Breast Imaging Report Template Structure

TID 4200 Breast Imaging Report

This Template forms the content tree that allows a Breast Imaging Report device to describe the results of a radiologist's diagnostic interpretation of Breast Imaging (e.g., X-Ray mammography or breast ultrasound) evidence. This Template, together with its subordinate Templates, describes the results for presentation to clinicians, or for consumption by Breast Imaging Report devices for subsequent Breast Imaging Reports.

This Template shall be instantiated at the Root node only.

See Figure Q.1-1 "Top Level of Breast Imaging Report Content Tree" in PS3.17.

Type: Non-Extensible
Order: Significant
Root: Yes

Table TID 4200. Breast Imaging Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (111400, DCM, "Breast Imaging Report") | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | CONTAINS | INCLUDE | DTID 4202 "Breast Imaging Report Narrative" | 1 | M | | |
| 4 | > | CONTAINS | INCLUDE | DTID 4208 "Breast Imaging Report Supplementary Data" | 1 | U | | |

TID 4201 Breast Imaging Procedure Reported

A procedure that is reported in a Breast Imaging Report is expressed in this Template. The results of more than one procedure may be included in a single report instance (see TID 4208 "Breast Imaging Report Supplementary Data").

See Figure Q.1-2 "Breast Imaging Procedure Reported Content Tree" in PS3.17.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4201. Breast Imaging Procedure Reported

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|-----|-----------------|------|--|-----|----------|---------------------------------------|--|
| 1 | | | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | DCID 6050 "Breast Procedure Reported" |
| 2 | > | HAS CONCEPT MOD | CODE | EV (111464, DCM, "Procedure Modifier") | 1-n | U | | DCID 6058 "Procedure Modifiers for Breast" |
| 3 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | M | | DCID 6022 "Side" |
| 4 | > | HAS PROPERTIES | CODE | EV (111401, DCM, "Reason for procedure") | 1 | U | | DCID 6051 "Breast Procedure Reason" |
| 5 | >> | HAS CONCEPT MOD | CODE | EV (G-D709, SRT, "Relative time") | 1 | U | | DCID 12102 "Temporal Periods Relating to Procedure or Therapy" |
| 6 | >> | HAS CONCEPT MOD | CODE | EV (111402, DCM, "Clinical Finding") | 1-n | UC | IFF row 4 value is "Clinical Finding" | DCID 6055 "Breast Clinical Finding or Indicated Problem" Breast Clinical Finding or Indicated Problem |
| 7 | >>> | HAS PROPERTIES | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 6022 "Side" |
| 8 | > | HAS PROPERTIES | DATE | EV (111060, DCM, "Study Date") | 1 | U | | |

Content Item Descriptions

| | |
|-----------------------|---|
| Row 5 "Relative time" | This Content Item indicates whether the value of "Reason for procedure" (row 4) is modified with "pre-" or "follow-up". |
|-----------------------|---|

TID 4202 Breast Imaging Report Narrative

This Template contains the narrative text sub-tree of the content tree of a Breast Imaging Report. The narrative summary may be subdivided into sections with section headings.

See Figure Q.1-3 "Breast Imaging Report Narrative Content Tree" in PS3.17.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4202. Breast Imaging Report Narrative

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|-----|-----------------|-----------|---|-----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (111412, DCM, "Narrative Summary") | 1 | M | | |
| 2 | > | CONTAINS | CONTAINER | BCID 6052 "Breast Imaging Report Section Title" | 1-n | M | | |
| 3 | >> | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | U | | |
| 4 | >> | CONTAINS | TEXT | BCID 6053 "Breast Imaging Report Elements" | 1 | M | | |
| 5 | >>> | INFERRED FROM | INCLUDE | DTID 350 "References to Supporting Evidence" | 1 | U | | |

TID 4203 Breast Imaging Assessment

This Template provides the content of a Breast Imaging Assessment, for an overall assessment section for the entire report (see TID 4208 "Breast Imaging Report Supplementary Data") or an assessment of a particular finding (see TID 4206 "Breast Imaging Report Finding Section"). This Template defines a code-based assessment of the interpretation results.

See Figure Q.1-5 "Breast Imaging Assessment Content Tree" in PS3.17.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4203. Breast Imaging Assessment

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|-----------|--|
| 1 | | | CODE | EV (111005, DCM, "Assessment Category") | 1 | M | | DCID 6026 "Mammography Assessment" |
| 2 | | | CODE | EV (111053, DCM, "Recommended Follow-up") | 1-n | U | | BCID 6028 "Mammography Recommended Follow-up" |
| 3 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 6022 "Side" |
| 4 | > | HAS PROPERTIES | NUM | EV (111055, DCM, "Recommended Follow-up Interval") | 1 | U | | UNITS = DCID 6046 "Units of Follow-up Interval" Values = Integer ≥ 0, where 0 = immediate follow-up |
| 5 | > | HAS PROPERTIES | DATE | EV (111054, DCM, "Recommended Follow-up Date") | 1 | U | | |
| 6 | > | HAS PROPERTIES | INCLUDE | DTID 4207 "Breast Imaging Pathology Results" | 1-n | U | | |

TID 4204 Breast Imaging Report Intervention Section

This Template defines a supplementary data section for an Intervention of the breast, for the Breast Imaging Report. It is included from TID 4208 "Breast Imaging Report Supplementary Data".

Type: Extensible
Order: Significant
Root: No

Table TID 4204. Breast Imaging Report Intervention Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (111463, DCM, "Supplementary Data for Intervention") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 4201 "Breast Imaging Procedure Reported" | 1 | M | | |
| 3 | > | CONTAINS | CODE | EV (A-00110, SRT, "Instrument") | 1 | U | | |
| 4 | >> | HAS PROPERTIES | TEXT | EV (111465, DCM, "Needle Gauge") | 1 | UC | XOR row 5 | |
| 5 | >> | HAS PROPERTIES | CODE | EV (111465, DCM, "Needle Gauge") | 1 | UC | XOR row 4 | |
| 6 | >> | HAS PROPERTIES | NUM | EV (111467, DCM, "Needle Length") | 1 | U | | UNITS = EV (cm, UCUM, "centimeter") |
| 7 | > | CONTAINS | NUM | EV (111436, DCM, "Number of passes") | 1 | U | | UNITS = EV ({passes}, UCUM, "passes") |
| 8 | > | CONTAINS | NUM | EV (111437, DCM, "Number of specimens") | 1 | U | | UNITS = EV ({specimens}, UCUM, "specimens") |
| 9 | > | CONTAINS | CODE | EV (111431, DCM, "Instrument Approach") | 1-n | U | | DCID 6065 "Instrument Approach" |
| 10 | > | CONTAINS | CODE | EV (111438, DCM, "Needle in target") | 1 | U | | DCID 230 "Yes-No" |
| 11 | > | CONTAINS | NUM | EV (111439, DCM, "Number of needles around target") | 1 | U | | UNITS = EV ({needles}, UCUM, "needles") |
| 12 | > | CONTAINS | CODE | EV (F-04460, SRT, "Medication given") | 1-n | U | | |
| 13 | > | CONTAINS | CODE | EV (111440, DCM, "Incision made") | 1 | U | | DCID 230 "Yes-No" |
| 14 | > | CONTAINS | CODE | EV (111123, DCM, "Marker placement") | 1 | U | | DCID 230 "Yes-No" |
| 15 | > | CONTAINS | CODE | EV (111442, DCM, "Confirmation of target") | 1 | U | | DCID 6066 "Target Confirmation" |
| 16 | > | CONTAINS | CODE | EV (DD-60002, SRT, "Complication of procedure") | 1-n | U | | DCID 6062 "Interventional Procedure Complications" |
| 17 | >> | HAS PROPERTIES | CODE | EV (111466, DCM, "Severity of Complication") | 1 | U | | DCID 251 "Severity of Complication" |
| 18 | > | CONTAINS | CONTAINER | EV (121027, DCM, "Specimen") | 1-n | U | | |
| 19 | >> | HAS OBS CONTEXT | INCLUDE | DTID 1009 "Subject Context, Specimen" | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|--|
| 20 | >> | CONTAINS | CODE | EV (F-00E6D, SRT, "Color of fluid") | 1 | U | | DCID 6067 "Fluid Color" |
| 21 | >> | CONTAINS | CODE | EV (111456, DCM, "Action on fluid") | 1 | U | | DT (111457, DCM, "Sent for analysis") DT (111458, DCM, "Discarded") |
| 22 | >> | CONTAINS | CODE | EV (111455, DCM, "Occult blood test result") | 1 | U | | DCID 250 "Positive-Negative" |
| 23 | >> | CONTAINS | INCLUDE | DTID 4207 "Breast Imaging Pathology Results" | 1-n | U | | |
| 24 | > | CONTAINS | INCLUDE | DTID 350 "References to Supporting Evidence" | 1 | U | | |

TID 4205 Breast Composition Section

This Template defines a Breast Composition section for the supplementary data sub-tree of the Breast Imaging Report. It is included from TID 4208 "Breast Imaging Report Supplementary Data".

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4205. Breast Composition Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|---|--|
| 1 | | | CONTAINER | EV (F-01710, SRT, "Breast composition") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 4201 "Breast Imaging Procedure Reported" | 1-n | U | | |
| 3 | > | CONTAINS | CODE | EV (F-01710, SRT, "Breast composition") | 1-n | MC | At least one of row 3, 5 shall be present | DCID 6000 "Overall Breast Composition" |
| 4 | >> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | M | | DCID 6022 "Side" |
| 5 | > | CONTAINS | NUM | EV (111046, DCM, "Percent Fibroglandular Tissue") | 1-n | MC | At least one of row 3, 5 shall be present | UNITS = EV (% , UCUM, "Percent") |
| 6 | >> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | M | | DCID 6022 "Side" |
| 7 | > | CONTAINS | CODE | EV (111350, DCM, "Breast background echo texture") | 1-2 | U | | DCID 6151 "Background Echotexture" |
| 8 | >> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | M | | DCID 6022 "Side" |

TID 4206 Breast Imaging Report Finding Section

This Template defines a supplementary data section for the Findings of the Breast Imaging Report. It is included from TID 4208 "Breast Imaging Report Supplementary Data".

Type: Extensible

Order: Significant
Root: No

Table TID 4206. Breast Imaging Report Finding Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|---|---|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | U | | |
| 3 | > | CONTAINS | INCLUDE | DTID 4201 "Breast Imaging Procedure Reported" | 1 | M | | |
| 4 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | M | | DCID 6054 "Breast Imaging Findings" |
| 5 | >> | HAS CONCEPT MOD | CODE | EV (111405, DCM, "Implant type") | 1-n | UC | May be present if value of row 4 is (A-04010, SRT, "Implant") | DCID 6059 "Breast Implant Types" |
| 6 | >> | HAS PROPERTIES | INCLUDE | DTID 4203 "Breast Imaging Assessment" | 1 | U | | |
| 7 | >> | HAS PROPERTIES | CODE | EV (111014, DCM, "Clockface or region") | 1 | U | | DCID 6018 "Clockface Location or Region" |
| 8 | >> | HAS PROPERTIES | CODE | EV (111048, DCM, "Quadrant location") | 1 | U | | DCID 6020 "Quadrant Location" |
| 9 | >> | HAS PROPERTIES | INCLUDE | DTID 1400 "Linear Measurement" | 1-n | U | | |
| 10 | >> | HAS PROPERTIES | INCLUDE | DTID 1401 "Area Measurement" | 1-n | U | | |
| 11 | >> | HAS PROPERTIES | INCLUDE | DTID 1402 "Volume Measurement" | 1-n | U | | |
| 12 | >> | HAS PROPERTIES | CODE | EV (111020, DCM, "Depth") | 1 | U | | DCID 6024 "Depth" |
| 13 | >> | HAS PROPERTIES | CODE | EV (111035, DCM, "Lesion Density") | 1 | U | | DCID 6008 "Density Modifier" |
| 14 | >> | HAS PROPERTIES | CODE | EV (M-020F9, SRT, "Shape") | 1-n | U | | DCID 6004 "Mammography Characteristics of Shape" |
| 15 | >> | HAS PROPERTIES | CODE | EV (111037, DCM, "Margins") | 1-n | U | | DCID 6006 "Mammography Characteristics of Margin" |
| 16 | >> | HAS PROPERTIES | CODE | EV (111009, DCM, "Calcification Type") | 1-n | U | | DCID 6010 "Mammography Calcification Types" |
| 17 | >> | HAS PROPERTIES | CODE | EV (111008, DCM, "Calcification Distribution") | 1 | U | | DCID 6012 "Calcification Distribution Modifier" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|--|
| 18 | >> | HAS PROPERTIES | NUM | EV (111038, DCM, "Number of calcifications") | 1 | U | | UNITS = EV ({calcifications}, UCUM, "calcifications") Value = Integer 1 - n |
| 19 | >> | HAS PROPERTIES | CODE | EV (111407, DCM, "Implant finding") | 1-n | U | | DCID 6072 "Breast Implant Findings" |
| 20 | >> | HAS PROPERTIES | CODE | EV (G-C189, SRT, "Associated Finding") | 1-n | U | | DCID 6056 "Associated Findings for Breast" |
| 21 | >> | HAS PROPERTIES | NUM | EV (111406, DCM, "Number of similar findings") | 1 | U | | UNITS = EV ({findings}, UCUM, "findings") Value = Integer 2 - n |
| 22 | >> | HAS PROPERTIES | CODE | EV (F-01720, SRT, "Change since last mammogram") | 1-n | U | | DCID 6002 "Change Since Last Mammogram or Prior Surgery" |
| 23 | >> | HAS PROPERTIES | CODE | EV (111354, DCM, "Orientation") | 1 | U | | DCID 6152 "Orientation" |
| 24 | >> | HAS PROPERTIES | CODE | EV (111357, DCM, "Lesion boundary") | 1 | U | | DCID 6153 "Lesion Boundary" |
| 25 | >> | HAS PROPERTIES | CODE | EV (111360, DCM, "Echo pattern") | 1 | U | | DCID 6154 "Echo Pattern" |
| 26 | >> | HAS PROPERTIES | CODE | EV (111366, DCM, "Posterior acoustic features") | 1 | U | | DCID 6155 "Posterior Acoustic Features" |
| 27 | >> | HAS PROPERTIES | CODE | EV (111371, DCM, "Identifiable effect on surrounding tissues") | 1 | U | | DCID 6015 "Single Image Finding from BI-RADS®" |
| 28 | >> | HAS PROPERTIES | CODE | EV (111372, DCM, "Vascularity") | 1 | U | | DCID 6157 "Vascularity" |
| 29 | >> | HAS PROPERTIES | CODE | EV (111380, DCM, "Correlation to Other Findings") | 1-n | U | | DCID 6158 "Correlation to Other Findings" |
| 30 | >> | INFERRED FROM | INCLUDE | DTID 350 "References to Supporting Evidence" | 1 | U | | |

TID 4207 Breast Imaging Pathology Results

This Template defines the pathology results for a procedure. It may be applied to a Breast Imaging Assessment (see TID 4203 "Breast Imaging Assessment"), or a Breast Imaging Intervention (see TID 4204 "Breast Imaging Report Intervention Section").

Type: Extensible
Order: Significant
Root: No

Table TID 4207. Breast Imaging Pathology Results

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---------------------------------------|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (111468, DCM, "Pathology Results") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|----------|---|-----|----------|---|---|
| 2 | > | CONTAINS | INCLUDE | DTID 4201 "Breast Imaging Procedure Reported" | 1 | U | | |
| 3 | > | CONTAINS | DATETIME | EV (111469, DCM, "Sampling DateTime") | 1 | M | | |
| 4 | > | CONTAINS | CODE | EV (122177, DCM, "Procedure Result") | 1 | M | | DCID 6063 "Interventional Procedure Results" |
| 5 | > | CONTAINS | CODE | EV (111042, DCM, "Pathology") | 1-n | U | | BCID 6030 "Mammography Pathology Codes" |
| 6 | >> | HAS PROPERTIES | CODE | EV (111388, DCM, "Malignancy Type") | 1 | U | | DCID 6159 "Malignancy Type" |
| 7 | >> | HAS PROPERTIES | NUM | DCID 6165 "Breast Linear Measurements" | 1-n | U | | UNITS = EV (mm, UCUM, "millimeter") |
| 8 | >> | HAS PROPERTIES | CODE | EV (F-02900, SRT, "Histological grade finding") | 1 | U | | BCID 6069 "Nottingham Combined Histologic Grade" BCID 6070 "Bloom-Richardson Histologic Grade" |
| 9 | >>> | HAS CONCEPT MOD | CODE | EV (R-00258, SRT, "Histologic grade") | 1 | U | | BCID 6071 "Histologic Grading Method" |
| 10 | >> | HAS PROPERTIES | CODE | EV (R-00274, SRT, "Tumor margin status") | 1 | U | | DT (111470, DCM, "Uninvolved"), DT (111471, DCM, "Involved") |
| 11 | >> | HAS PROPERTIES | CODE | EV (111472, DCM, "Nipple involved") | 1 | U | | DCID 230 "Yes-No" |
| 12 | >> | HAS PROPERTIES | NUM | EV (111473, DCM, "Number of nodes removed") | 1 | U | | UNITS = EV ({nodes}, UCUM, "nodes") |
| 13 | >> | HAS PROPERTIES | NUM | EV (111474, DCM, "Number of nodes positive") | 1 | MC | Shall be present IFF value of row 12 is > 0 | UNITS = EV ({nodes}, UCUM, "nodes") |
| 14 | >> | HAS PROPERTIES | CODE | EV (R-00465, SRT, "pT category finding") | 1 | U | | DCID 6160 "Breast Primary Tumor Assessment From AJCC" |
| 15 | >> | HAS PROPERTIES | CODE | EV (R-00463, SRT, "Node stage finding") | 1 | U | | DCID 6161 "Clinical Regional Lymph Node Assessment for Breast" |
| 16 | >> | HAS PROPERTIES | CODE | EV (R-00461, SRT, "Metastasis stage finding") | 1 | U | | DCID 6162 "Assessment of Metastasis for Breast" |
| 17 | >> | HAS PROPERTIES | CODE | EV (R-00443, SRT, "Tumor stage finding") | 1 | U | | BCID 6068 "Tumor Stages From AJCC" |
| 18 | >> | HAS PROPERTIES | CODE | EV (111475, DCM, "Estrogen receptor") | 1 | U | | DCID 250 "Positive-Negative" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|----|----------|-----------|----------------------------------|
| 19 | >> | HAS PROPERTIES | CODE | EV (111476, DCM, "Progesterone receptor") | 1 | U | | DCID 250 "Positive-Negative" |
| 20 | >> | HAS PROPERTIES | NUM | EV (111477, DCM, "S Phase") | 1 | U | | UNITS = EV (% , UCUM, "percent") |

TID 4208 Breast Imaging Report Supplementary Data

This Template forms a supplementary data sub-tree of the content tree of a Breast Imaging Report. Each subsection provides a specific type of supporting evidence to the narrative text sub-tree, for example, as coded and numeric data.

See Figure Q.1-4 "Breast Imaging Report Supplementary Data Content Tree" in PS3.17.

Type: Non-Extensible
Order: Significant
Root: No

Table TID 4208. Breast Imaging Report Supplementary Data

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (111414, DCM, "Supplementary Data") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 4201 "Breast Imaging Procedure Reported" | 1-n | M | | |
| 3 | > | CONTAINS | CODE | EV (111403, DCM, "Baseline screening mammogram") | 1 | U | | DCID 230 "Yes-No" |
| 4 | > | CONTAINS | CODE | EV (111404, DCM, "First mammogram ever") | 1 | U | | DCID 230 "Yes-No" |
| 5 | > | CONTAINS | INCLUDE | DTID 4205 "Breast Composition Section" | 1 | U | | |
| 6 | > | CONTAINS | INCLUDE | DTID 4206 "Breast Imaging Report Finding Section" | 1-n | U | | |
| 7 | > | CONTAINS | INCLUDE | DTID 4204 "Breast Imaging Report Intervention Section" | 1-n | U | | |
| 8 | > | CONTAINS | CONTAINER | EV (111413, DCM, "Overall Assessment") | 1 | U | | |
| 9 | >> | CONTAINS | INCLUDE | DTID 4203 "Breast Imaging Assessment" | 1 | M | | |

OB-GYN Report Templates

TID 5000 OB-GYN Ultrasound Procedure Report

This is the Template for the root of the content tree for the OB-GYN ultrasound procedure report.

Type: Extensible
Order: Significant
Root: Yes

Table TID 5000. OB-GYN Ultrasound Procedure Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|---|
| 1 | | | CONTAINER | EV (125000, DCM, "OB-GYN Ultrasound Procedure Report") | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | U | | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |
| 4 | > | CONTAINS | INCLUDE | DTID 5001 "OB-GYN Patient Characteristics" | 1 | U | | |
| 5 | > | CONTAINS | CONTAINER | DT (111028, DCM, "Image Library") | 1 | U | | |
| 6 | >> | CONTAINS | IMAGE | No purpose of reference | 1-n | M | | |
| 7 | > | CONTAINS | INCLUDE | DTID 5002 "OB-GYN Procedure Summary Section" | 1 | U | | |
| 8 | > | CONTAINS | INCLUDE | DTID 5004 "Fetal Biometry Ratio Section" | 1-n | U | | |
| 9 | > | CONTAINS | INCLUDE | DTID 5005 "Fetal Biometry Section" | 1-n | U | | |
| 10 | > | CONTAINS | INCLUDE | DTID 5006 "Fetal Long Bones Section" | 1-n | U | | |
| 11 | > | CONTAINS | INCLUDE | DTID 5007 "Fetal Cranium Section" | 1-n | U | | |
| 12 | > | CONTAINS | INCLUDE | DTID 5009 "Fetal Biophysical Profile Section" | 1-n | U | | |
| 13 | > | CONTAINS | INCLUDE | DTID 5011 "Early Gestation Section" | 1-n | U | | |
| 14 | > | CONTAINS | INCLUDE | DTID 5010 "Amniotic Sac Section" | 1 | U | | |
| 15 | > | CONTAINS | INCLUDE | DTID 5015 "Pelvis and Uterus Section" | 1 | U | | |
| 16 | > | CONTAINS | INCLUDE | DTID 5012 "Ovaries Section" | 1 | U | | |
| 17 | > | CONTAINS | INCLUDE | DTID 5013 "Follicles Section" | 1 | U | | \$Laterality = EV (G-A101, SRT, "Left") \$Number = EV (11879-4, LN, "Number of follicles in left ovary") |
| 18 | > | CONTAINS | INCLUDE | DTID 5013 "Follicles Section" | 1 | U | | \$Laterality = EV (G-A100, SRT, "Right") \$Number = EV (11880-2, LN, "Number of follicles in right ovary") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|-----------|--|
| 19 | > | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1-n | U | | |
| 20 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | EV (T-F6800, SRT, "Embryonic Vascular Structure") |
| 21 | >> | CONTAINS | INCLUDE | DTID 5025 "OB-GYN Fetal Vascular Ultrasound Measurement Group" | 1 | M | | \$AnatomyGroup = DCID 12141 "Fetal Vasculature Anatomical Location" |
| 22 | > | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1-n | U | | |
| 23 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | EV (T-D6007, SRT, "Pelvic Vascular Structure") |
| 24 | >> | CONTAINS | INCLUDE | DTID 5026 "OB-GYN Pelvic Vascular Ultrasound Measurement Group" | 1 | M | | \$AnatomyGroup = DCID 12140 "Pelvic Vasculature Anatomical Location" |

TID 5001 OB-GYN Patient Characteristics

Patient Characteristic concepts in this Template, which may replicate attributes in the Patient Study Module, are included here as possible targets of by-reference relationships from other Content Items in the SR tree.

Note

Several of the concepts in this Template duplicate concepts in TID 1007 "Subject Context, Patient". The difference in use is that this Template has those concepts as primary observations of the patient, while in TID 1007 "Subject Context, Patient" the concepts are used to set (or reset) the context for other observations.

Type: Extensible
Order: Significant
Root: No

Table TID 5001. OB-GYN Patient Characteristics

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (121118, DCM, "Patient Characteristics") | 1 | M | | |
| 2 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |
| 3 | > | CONTAINS | NUM | EV (8302-2, LN, "Patient Height") | 1 | U | | |
| 4 | > | CONTAINS | NUM | EV (29463-7, LN, "Patient Weight") | 1 | U | | |
| 5 | > | CONTAINS | NUM | EV (11996-6, LN, "Gravida") | 1 | U | | |
| 6 | > | CONTAINS | NUM | EV (11977-6, LN, "Para") | 1 | U | | |
| 7 | > | CONTAINS | NUM | EV (11612-9, LN, "Aborta") | 1 | U | | |
| 8 | > | CONTAINS | NUM | EV (33065-4, LN, "Ectopic Pregnancies") | 1 | U | | |

TID 5002 OB-GYN Procedure Summary Section

Observations of the procedure of immediate clinical interest.

Type: Extensible
Order: Significant
Root: No

Table TID 5002. OB-GYN Procedure Summary Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|------------------------------------|---|
| 1 | | | CONTAINER | DT (121111, DCM, "Summary") | 1 | M | | |
| 2 | > | CONTAINS | DATE | DCID 12003 "OB-GYN Dates" | 1-n | U | | |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = BCID 12018 "OB-GYN Summary" |
| 4 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1-n | U | | |
| 5 | >> | | INCLUDE | DTID 320 "Image or Spatial Coordinates" | 1-n | U | | |
| 6 | > | CONTAINS | INCLUDE | BTID 5003 "OB-GYN Fetus Summary" | 1-n | UC | No more than 1 inclusion per fetus | |

TID 5003 OB-GYN Fetus Summary

The Fetus Summary Template is a container for summary data of a fetus.

Type: Extensible
Order: Significant
Root: No

Table TID 5003. OB-GYN Procedure Fetus Summary

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|--|--|
| 1 | | | CONTAINER | DT (125008, DCM, "Fetus Summary") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this Template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1-n | U | | |
| 4 | >> | | INCLUDE | DTID 320 "Image or Spatial Coordinates" | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 12019 "OB-GYN Fetus Summary" \$Equation = DCID 12012 "OB Equations and Tables" |

TID 5004 Fetal Biometry Ratio Section

The Fetal Biometry Section Ratio Template is a container for common biometric ratios.

Type: Extensible
Order: Significant
Root: No

Table TID 5004. Fetal Biometry Ratio Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|--|----------------------|
| 1 | | | CONTAINER | DT (125001, DCM, "Fetal Biometry Ratios") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this Template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | NUM | DCID 12004 "Fetal Biometry Ratios" | 1-n | M | | |
| 4 | >> | R-INFERRED FROM | NUM | | 2 | U | | |
| 5 | >> | HAS PROPERTIES | INCLUDE | DTID 312 "Normal Range Properties" | 1 | U | | |

Content Item Descriptions

| | |
|-------|--|
| Row 3 | Numeric ratio related to fetal growth |
| Row 4 | Reference to the numerator and denominator of the ratio. |

TID 5005 Fetal Biometry Section

The Fetal Biometry Section Template is a container for common biometric groups.

Type: Extensible
Order: Significant
Root: No

Table TID 5005. Fetal Biometry Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------------|----|----------|--|----------------------|
| 1 | | | CONTAINER | DT (125002, DCM, "Fetal Biometry") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this Template is invoked more than once to describe more than one fetus | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|----------------------------------|-----|----------|-----------|--|
| 3 | > | CONTAINS | INCLUDE | DTID 5008 "Fetal Biometry Group" | 1-n | M | | \$BiometryType = MemberOf {DCID 12005 "Fetal Biometry Measurements" \$TargetSite = DCID 12020 "Fetal Biometry Anatomic Sites" |

Content Item Descriptions

| | |
|-------|--|
| Row 3 | The group of measurements. Only one group per biometry type. |
|-------|--|

TID 5006 Fetal Long Bones Section

The Long Bones Template is a container for biometric data of long bones.

Type: Extensible
Order: Significant
Root: No

Table TID 5006. Fetal Long Bones Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------------------------|-----|----------|--|--|
| 1 | | | CONTAINER | DT (125003, DCM, "Fetal Long Bones") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this Template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | INCLUDE | DTID 5008 "Fetal Biometry Group" | 1-n | M | | \$BiometryType = MemberOf {DCID 12006 "Fetal Long Bones Biometry Measurements" \$TargetSite = DCID 12021 "Fetal Long Bone Anatomic Sites" |

Content Item Descriptions

| | |
|-------|--|
| Row 3 | The group of measurements. Only one group per biometry type. |
|-------|--|

TID 5007 Fetal Cranium Section

The Fetal Cranium Template is a container for groups of biometric data of the fetal cranium.

Type: Extensible
Order: Significant
Root: No

Table TID 5007. Fetal Cranium Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------------|-----|----------|--|---|
| 1 | | | CONTAINER | DT (125004, DCM, "Fetal Cranium") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this Template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | INCLUDE | DTID 5008 "Fetal Biometry Group" | 1-n | M | | \$BiometryType = MemberOf {DCID 12007 "Fetal Cranium" \$TargetSite = DCID 12022 "Fetal Cranium Anatomic Sites" |

Content Item Descriptions

| | |
|-------|--|
| Row 3 | The group of measurements. Only one group per biometry type. |
|-------|--|

TID 5008 Fetal Biometry Group

The Biometry Group Template is container for a biometric value and its associated growth metrics.

Table TID 5008. Parameters

| Parameter Name | Parameter Usage |
|----------------|---|
| \$BiometryType | The concept name of the biometry measurement |
| \$TargetSite | Value for Anatomic Location of the biometry measurement |

Type: Extensible
Order: Significant
Root: No

Table TID 5008. Fetal Biometry Group

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-------------------------------------|-----|----------|--|--|
| 1 | | | CONTAINER | DT (125005, DCM, "Biometry Group") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | MC | At least one of row 2 and 3 shall be present | \$Measurement = \$BiometryType \$TargetSite = \$TargetSite \$Derivation = DCID 3627 "Measurement Type" |
| 3 | > | CONTAINS | NUM | EV (18185-9, LN, "Gestational Age") | 1 | MC | At least one of row 2 and 3 shall be present | UNITS = EV (d, UCUM, "days") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|-----|----------|-----------|---|
| 4 | >> | INFERRED FROM | CODE | DCID 228 "Equation or Table" | 1 | U | | DCID 12013 "Gestational Age Equations and Tables" |
| 5 | >> | R-INFERRED FROM | NUM | | 1-n | U | | |
| 6 | >> | HAS PROPERTIES | NUM | DCID 226 "Population Statistical Descriptors" | 1-n | U | | |
| 7 | > | CONTAINS | NUM | DCID 12017 "Growth Distribution Rank" | 1 | U | | |
| 8 | >> | INFERRED FROM | CODE | DCID 228 "Equation or Table" | 1 | U | | DCID 12015 "Fetal Growth Equations and Tables" |

Content Item Descriptions

| | |
|-------|---|
| Row 1 | Container to segregate biometry data by measurement type |
| Row 2 | The discrete measurements of the biometry type including derived measurements such as mean. One of the measurements may be flagged as selected for derived measurements. The anatomic location may be precoordinated in the measurement type, but may also be explicitly conveyed in the \$TargetSite parameter, which then also allows laterality to be encoded within TID 300 "Measurement". |
| Row 3 | The estimated gestational age derived from an equation or table based on the explicitly referenced R-INFERRED FROM Content Item, selected measurement or mean, in that order of preference. |
| Row 4 | The reference that defines the equation or table of GA derivation |
| Row 6 | The uncertainty/confidence limits of the gestational age |
| Row 7 | Expresses the rank of the selected or mean measurement of row 2 relative to the distribution specified in row 8. |
| Row 8 | This row specifies the CODE reference used to compute the percentile or Z-score. |

TID 5009 Fetal Biophysical Profile Section

This Template encodes scoring observations for fetal well-being evaluation as described by Manning, Antepartum Fetal Evaluation: Development of a Fetal Biophysical Profile Score, Am. J Obstet Gynecol, 1980;136:787.

Type: Extensible
Order: Significant
Root: No

Table TID 5009. Fetal Biophysical Profile Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|--|---------------------------------------|
| 1 | | | CONTAINER | DT (125006, DCM, "Biophysical Profile") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this Template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | NUM | EV (11631-9, LN, "Gross Body Movement") | 1 | MC | At least one of row 3-7 shall be present | UNITS = DT ({0:2}, UCUM, "range 0:2") |
| 4 | > | CONTAINS | NUM | EV (11632-7, LN, "Fetal Breathing") | 1 | MC | At least one of row 3-7 shall be present | UNITS = DT ({0:2}, UCUM, "range 0:2") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----|---|----|----------|--|---------------------------------------|
| 5 | > | CONTAINS | NUM | EV (11635-0, LN, "Fetal Tone") | 1 | MC | At least one of row 3-7 shall be present | UNITS = DT ({0:2}, UCUM, "range 0:2") |
| 6 | > | CONTAINS | NUM | EV (11635-5, LN, "Fetal Heart Reactivity") | 1 | MC | At least one of row 3-7 shall be present | UNITS = DT ({0:2}, UCUM, "range 0:2") |
| 7 | > | CONTAINS | NUM | EV (11630-1, LN, "Amniotic Fluid Volume") | 1 | MC | At least one of row 3-7 shall be present | UNITS = DT ({0:2}, UCUM, "range 0:2") |
| 8 | > | CONTAINS | NUM | DT (11634-3, LN, "Biophysical Profile Sum Score") | 1 | U | | |

Content Item Descriptions

| | |
|---------|--|
| Row 3-7 | The numeric profile score of range 0-2 |
| Row 8 | The sum of rows 3-7. The range is from 0 to the maximum possible score according the items scored in rows 3-7. |

TID 5010 Amniotic Sac Section

This Template specifies a container for amniotic sac quadrant diameters and a derived index.

Type: Extensible
Order: Significant
Root: No

Table TID 5010. Amniotic Sac Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|----------------------------------|----|----------|-----------|--|
| 1 | | | CONTAINER | DT (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DT (T-F1300, SRT, "Amniotic Sac") |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = DT (11627-7, LN, "Amniotic Fluid Index") |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 4 | U | | \$Measurement = DCID 12008 "OB-GYN Amniotic Sac" |

Content Item Descriptions

| | |
|-------|--|
| Row 3 | The sum of the 4 quadrant diameters |
| Row 4 | The four amniotic sac quadrant diameters |

TID 5011 Early Gestation Section

The Early Gestation Section Template is a container for common, first trimester biometric groups.

Type: Extensible
Order: Significant
Root: No

Table TID 5011. Early Gestation Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-------------------------------------|-----|----------|--|---|
| 1 | | | CONTAINER | DT (125009, DCM, "Early Gestation") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this Template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | INCLUDE | DTID 5008 "Fetal Biometry Group" | 1-n | M | | \$BiometryType = Member of {DCID 12009 "Early Gestation Biometry Measurements"} |

TID 5012 Ovaries Section

This Template contains metrics of ovary size.

Type: Extensible
Order: Significant
Root: No

Table TID 5012. Ovaries Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|----------------------------------|----|----------|-----------|--|
| 1 | | | CONTAINER | DT (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DT (T-87000, SRT, "Ovary") |
| 3 | > | CONTAINS | INCLUDE | DTID 5016 "LWH Volume Group" | 1 | U | | \$GroupName = EV (T-87000, SRT, "Ovary") \$Width = EV (11829-9, LN, "Left Ovary Width") \$Length = EV (11840-6, LN, "Left Ovary Length") \$Height = EV (11857-0, LN, "Left Ovary Height") \$Volume = EV (12164-0, LN, "Left Ovary Volume") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|------------------------------|----|----------|-----------|--|
| 4 | > | CONTAINS | INCLUDE | DTID 5016 "LWH Volume Group" | 1 | U | | \$GroupName = EV (T-87000, SRT, "Ovary") \$Width = EV (11830-7, LN, "Right Ovary Width") \$Length = EV (11841-4, LN, "Right Ovary Length") \$Height = EV (11858-8, LN, "Right Ovary Height") \$Volume = EV (12165-7, LN, "Right Ovary Volume") |

TID 5013 Follicles Section

This Template contains follicle metrics for left or right ovarian follicles.

Table TID 5013. Parameters

| Parameter Name | Parameter Usage |
|----------------|-------------------------|
| \$Laterality | Ovary laterality |
| \$Number | The number of follicles |

Type: Extensible
Order: Significant
Root: No

Table TID 5013. Follicles Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|---------------------------------------|
| 1 | | | CONTAINER | DT (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DT (T-87600, SRT, "Ovarian Follicle") |
| 3 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | M | | \$Laterality |
| 4 | > | CONTAINS | NUM | \$Number | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 5014 "Follicle Measurement Group" | 1-n | U | | |

TID 5014 Follicle Measurement Group

This Template contains metrics for one ovarian follicle.

Type: Extensible
Order: Significant
Root: No

Table TID 5014. Follicle Measurement Group

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---------------------------------------|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (125007, DCM, "Measurement Group") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | TEXT | EV (125010, DCM, "Identifier") | 1 | U | | Unique among all groups of same laterality |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | U | | \$Measurement = EV (G-D705, SRT, "Volume") |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = EV (11793-7, LN, "Follicle Diameter") \$Derivation = DCID 3627 "Measurement Type" |

TID 5015 Pelvis and Uterus Section

This Template contains general measurements in the pelvis and uterus.

Type: Extensible
Order: Significant
Root: No

Table TID 5015. Pelvis and Uterus Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---------------------------------------|-----|----------|-----------|---|
| 1 | | | CONTAINER | DT (125011, DCM, "Pelvis and Uterus") | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 5016 "LWH Volume Group" | 1 | U | | \$GroupName = EV (T-83000, SRT, "Uterus") \$Width = EV (11865-3, LN, "Uterus Width") \$Length = EV (11842-2, LN, "Uterus Length") \$Height = EV (11859-6, LN, "Uterus Height") \$Volume = EV (33192-6, LN, "Uterus Volume") |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 12011 "Ultrasound Pelvis and Uterus" \$TargetSite = DCID 12023 "Pelvis and Uterus Anatomic Sites" \$Derivation = DCID 3627 "Measurement Type" |

TID 5016 LWH Volume Group

This Template is a container for a group of measurements that assess the size of an anatomical structure using a volume derived from perpendicular diameters.

Table TID 5016. Parameters

| Parameter Name | Parameter Usage |
|----------------|--|
| \$GroupName | The name of the volume group that is an anatomical structure |
| \$Volume | Concept name of volume measurement |
| \$Length | Concept name of length measurement |
| \$Width | Concept name of width measurement |
| \$Height | Concept name of height measurement |

Type: Extensible
Order: Significant
Root: No

Table TID 5016. LWH Volume Group

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---------------------------|-----|----------|---|--|
| 1 | | | CONTAINER | \$GroupName | 1 | M | | |
| 2 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1 | MC | At least one of row 2, 3, 4, 5 shall be present | \$Measurement = \$Volume \$TargetSite = \$GroupName |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | MC | At least one of row 2, 3, 4, 5 shall be present | \$Measurement = \$Length \$TargetSite = \$GroupName \$Derivation = DCID 3627 "Measurement Type" |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | MC | At least one of row 2, 3, 4, 5 shall be present | \$Measurement = \$Width \$TargetSite = \$GroupName \$Derivation = DCID 3627 "Measurement Type" |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | MC | At least one of row 2, 3, 4, 5 shall be present | \$Measurement = \$Height \$TargetSite = \$GroupName \$Derivation = DCID 3627 "Measurement Type" |

TID 5025 OB-GYN Fetal Vascular Ultrasound Measurement Group

This Template is an anatomy specific container of OB-GYN fetal vascular measurements.

Table TID 5025. Parameters

| Parameter Name | Parameter Usage |
|----------------|--|
| \$AnatomyGroup | The concept name of the vascular anatomy |

Type: Extensible
Order: Significant
Root: No

Table TID 5025. OB-GYN Fetal Vascular Ultrasound Measurement Group

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------------|-----|----------|--|---|
| 1 | | | CONTAINER | \$AnatomyGroup | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this Template is invoked more than once to describe more than one fetus | |
| 3 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | MC | IFF anatomy has laterality | DCID 244 "Laterality" |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$MeasType = DCID 12119 "Vascular Ultrasound Property" \$Derivation = DCID 3627 "Measurement Type" |

Content Item Descriptions

| | |
|---------------|--|
| Anatomy Group | Specifies the anatomical context of the observations in the group. |
|---------------|--|

TID 5026 OB-GYN Pelvic Vascular Ultrasound Measurement Group

This Template is an anatomy specific container of OB-GYN pelvic vascular measurements.

Table TID 5026. Parameters

| Parameter Name | Parameter Usage |
|----------------|--|
| \$AnatomyGroup | The concept name of the vascular anatomy |

Type: Extensible
Order: Significant
Root: No

Table TID 5026. OB-GYN Pelvic Vascular Ultrasound Measurement Group

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|----------------------------|---|
| 1 | | | CONTAINER | \$AnatomyGroup | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | MC | IFF anatomy has laterality | DCID 244 "Laterality" |
| 3 | > | HAS CONCEPT MOD | TEXT | EV (112050, DCM, "Anatomic Identifier") | 1 | U | | |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$MeasType = DCID 12119 "Vascular Ultrasound Property" \$Derivation = DCID 3627 "Measurement Type" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|----|----------|-----------|--------------------------------------|
| 5 | >> | HAS CONCEPT MOD | CODE | EV (125105, DCM, "Measurement Orientation") | 1 | U | | DCID 12118 "Measurement Orientation" |
| 6 | >> | HAS PROPERTIES | NUM | EV (125106, DCM, "Doppler Angle") | 1 | U | | UNIT = EV (deg, UCUM, "deg") |
| 7 | >> | HAS PROPERTIES | NUM | EV (125107, DCM, "Sample Volume Depth") | 1 | U | | UNIT = EV (cm, UCUM, "cm") |

Content Item Descriptions

| | |
|-------|--|
| Row 1 | Specifies the anatomical context of the observations in the group. |
| Row 3 | Differentiates between multiple structures such as the two umbilical arteries. |

Vascular Ultrasound Report Templates**TID 5100 Vascular Ultrasound Report**

This is the Template for the root the content tree for the vascular ultrasound procedure report.

Type: Extensible

Order: Significant

Root: No

Table TID 5100. Vascular Ultrasound Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (125100, DCM, "Vascular Ultrasound Procedure Report") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | CODE | EV (R-40FB8, SRT, "Temporal periods Relating to Procedure") | 1 | U | | DCID 12102 "Temporal Periods Relating to Procedure or Therapy" |
| 3 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | U | | |
| 4 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |
| 5 | > | CONTAINS | INCLUDE | DTID 5101 "Vascular Patient Characteristics" | 1 | U | | |
| 6 | > | CONTAINS | CONTAINER | EV (111028, DCM, "Image Library") | 1 | U | | |
| 7 | >> | CONTAINS | IMAGE | No purpose of reference | 1-n | M | | |
| 8 | > | CONTAINS | INCLUDE | DTID 5102 "Vascular Procedure Summary Section" | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|----|----------|-----------|---|
| 9 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-40501, SRT, "Blood Vessel of Head") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12105 "Intracranial Cerebral Vessels" |
| 10 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-40501, SRT, "Blood Vessel of Head") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12105 "Intracranial Cerebral Vessels" |
| 11 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-40501, SRT, "Blood Vessel of Head") \$SectionLaterality = EV (G-A103, SRT, "Unilateral") \$Anatomy = DCID 12106 "Intracranial Cerebral Vessels (Unilateral)" |
| 12 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-45005, SRT, "Artery of neck") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12104 "Extracranial Arteries" \$AnatomyRatio = DCID 12123 "Carotid Ratios" |
| 13 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-45005, SRT, "Artery of neck") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12104 "Extracranial Arteries" \$AnatomyRatio = DCID 12123 "Carotid Ratios" |
| 14 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-47040, SRT, "Artery of Lower Extremity") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12109 "Lower Extremity Arteries" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|----|----------|-----------|---|
| 15 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-47040, SRT, "Artery of Lower Extremity") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12109 "Lower Extremity Arteries" |
| 16 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-49403, SRT, "Vein of Lower Extremity") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12110 "Lower Extremity Veins" |
| 17 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-49403, SRT, "Vein of Lower Extremity") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12110 "Lower Extremity Veins" |
| 18 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12107 "Upper Extremity Arteries" |
| 19 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12107 "Upper Extremity Arteries" |
| 20 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12108 "Upper Extremity Veins" |
| 21 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12108 "Upper Extremity Veins" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|----|----------|-----------|---|
| 22 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-71019, SRT, "Vascular Structure Of Kidney") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12115 "Renal Vessels" \$AnatomyRatio = DCID 12124 "Renal Ratios" |
| 23 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-71019, SRT, "Vascular Structure Of Kidney") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12115 "Renal Vessels" \$AnatomyRatio = DCID 12124 "Renal Ratios" |
| 24 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-46002, SRT, "Artery of Abdomen") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12111 "Abdominal Arteries (Lateral)" |
| 25 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-46002, SRT, "Artery of Abdomen") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12111 "Abdominal Arteries (Lateral)" |
| 26 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-46002, SRT, "Artery of Abdomen") \$SectionLaterality = EV (G-A103, SRT, "Unilateral") \$Anatomy = DCID 12112 "Abdominal Arteries (Unilateral)" |
| 27 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-487A0, SRT, "Vein of Abdomen") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID 12113 "Abdominal Veins (Lateral)" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|----|----------|-----------|--|
| 28 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-487A0, SRT, "Vein of Abdomen") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID 12113 "Abdominal Veins (Lateral)" |
| 29 | > | CONTAINS | INCLUDE | DTID 5103 "Vascular Ultrasound Section" | 1 | U | | \$SectionScope = DT (T-487A0, SRT, "Vein of Abdomen") \$SectionLaterality = EV (G-A103, SRT, "Unilateral") \$Anatomy = DCID 12114 "Abdominal Veins (Unilateral)" |
| 30 | > | CONTAINS | INCLUDE | DTID 5105 "Ultrasound Graft Section" | 1 | U | | |

TID 5101 Vascular Patient Characteristics

Patient Characteristic concepts in this Template, which may replicate attributes in the Patient Study Module, are included here as possible targets of by-reference relationships from other Content Items in the SR tree.

Note

Several of the concepts in this Template duplicate concepts in TID 1007 "Subject Context, Patient". The difference in use is that this Template has those concepts as primary observations of the patient, while in TID 1007 "Subject Context, Patient" the concepts are used to set (or reset) the context for other observations.

Type: Extensible
Order: Significant
Root: No

Table TID 5101. Vascular Patient Characteristics

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (121118, DCM, "Patient Characteristics") | 1 | M | | |
| 2 | > | CONTAINS | NUM | EV (121033, DCM, "Subject Age") | 1 | U | | UNITS = DCID 7456 "Units of Measure for Age" |
| 3 | > | CONTAINS | CODE | EV (121032, DCM, "Subject Sex") | 1 | U | | DCID 7455 "Sex" |
| 4 | > | CONTAINS | NUM | EV (8867-4, LN, "Heart Rate") | 1 | U | | |
| 5 | > | CONTAINS | NUM | EV (F-008EC, SRT, "Systolic Blood Pressure") | 1 | U | | |
| 6 | > | CONTAINS | NUM | EV (F-008ED, SRT, "Diastolic Blood Pressure") | 1 | U | | |

TID 5102 Vascular Procedure Summary Section

Comments and observations of the procedure of immediate clinical interest.

Type: Extensible
Order: Significant
Root: No

Table TID 5102. Vascular Procedure Summary Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|-------------------------------|-----|----------|-----------|----------------------|
| 1 | | | CONTAINER | DT (121111, DCM, "Summary") | 1 | M | | |
| 2 | > | CONTAINS | TEXT | DCID 12101 "Vascular Summary" | 1-n | M | | |

TID 5103 Vascular Ultrasound Section

Sections of a vascular ultrasound report are section containers of an anatomic region consisting of measurement group containers that contain the measurements.

Table TID 5103. Parameters

| Parameter Name | Parameter Usage |
|---------------------|--|
| \$SectionScope | The concept name of the section heading modifier |
| \$SectionLaterality | The laterality (if any) of the anatomy in this section heading |
| \$Anatomy | The concept name of the vascular anatomy |
| \$AnatomyRatio | The concept name of anatomy-coordinated ratio concepts |

Type: Extensible
Order: Significant
Root: No

Table TID 5103. Vascular Ultrasound Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|--------------------------------|
| 1 | | | CONTAINER | DT (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | \$SectionScope |
| 3 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | M | | \$SectionLaterality |
| 4 | > | CONTAINS | INCLUDE | DTID 5104 "Vascular Ultrasound Measurement Group" | 1-n | M | | \$AnatomyGroup = \$Anatomy |
| 5 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = \$AnatomyRatio |

TID 5104 Vascular Ultrasound Measurement Group

This Template is an anatomy specific container of measurements.

Table TID 5104. Parameters

| Parameter Name | Parameter Usage |
|----------------|--|
| \$AnatomyGroup | The concept name of the vascular anatomy |

Type: Extensible
Order: Significant
Root: No

Table TID 5104. Vascular Ultrasound Measurement Group

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | | CONTAINER | \$AnatomyGroup | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-A1F8, SRT, "Topographical Modifier") | 1 | U | | DCID 12116 "Vessel Segment Modifiers" |
| 3 | > | HAS CONCEPT MOD | CODE | EV (125101, DCM, "Vessel Branch") | 1-n | U | | DCID 12117 "Vessel Branch Modifiers" |
| 4 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$Measurement = DCID 12119 "Vascular Ultrasound Property" \$Derivation = DCID 3627 "Measurement Type" |
| 5 | >> | HAS CONCEPT MOD | CODE | EV (R-4089A, SRT, "Cardiac Cycle Point") | 1 | U | | DCID 12233 "Cardiac Phase" |
| 6 | >> | HAS CONCEPT MOD | CODE | EV (R-41FFC, SRT, "Temporal period related to eating") | 1 | U | | DT (G-A491, SRT, "Post-prandial") |
| 7 | >> | HAS CONCEPT MOD | CODE | EV (125105, DCM, "Measurement Orientation") | 1 | U | | DCID 12118 "Measurement Orientation" |
| 8 | >> | HAS PROPERTIES | NUM | EV (125106, DCM, "Doppler Angle") | 1 | U | | UNIT = EV (deg, UCUM, "degrees") |
| 9 | >> | HAS PROPERTIES | NUM | EV (125107, DCM, "Sample Volume Depth") | 1 | U | | UNIT = EV (cm, UCUM, "cm") |

Content Item Descriptions

| | |
|-------|--|
| Row 1 | Specifies the anatomic context of the observations in the group. |
| Row 2 | Details the anatomical location, e.g., proximal, middle, or distal |
| Row 3 | The particular vessel branch, such as the inferior, medial or lateral |
| Row 5 | Cardiac phase (systolic, diastolic), especially for aorta measurements |
| Row 6 | Eating phase, especially for mesenteric and celiac measurements |

TID 5105 Ultrasound Graft Section

This Template is a container of measurements on a vascular graft.

Type: Extensible
Order: Significant
Root: No

Table TID 5105. Ultrasound Graft Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|------------------------------|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | DT (121070, DCM, "Findings") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|-----------|---|
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DT (T-D000F, SRT, "Vascular Graft") |
| 3 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | DCID 244 "Laterality" |
| 4 | > | HAS CONCEPT MOD | CODE | DT (G-D871, SRT, "Proximal anastomosis") | 1 | M | | BCID 12103 "Vascular Ultrasound Anatomic Location" |
| 5 | > | HAS CONCEPT MOD | CODE | DT (G-D872, SRT, "Distal Anastomosis") | 1 | M | | BCID 12103 "Vascular Ultrasound Anatomic Location" |
| 6 | > | HAS CONCEPT MOD | CODE | DT (125102, DCM, "Graft Type") | 1 | U | | No BCID |
| 7 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | M | | \$Measurement = DCID 12119 "Vascular Ultrasound Property" |

Content Item Descriptions

| | |
|----------------------|--|
| Proximal anastomosis | The proximal location of the graft |
| Distal anastomosis | The distal location of the graft |
| Graft type | The type of graft, e.g., "in situ", "prosthetic", "autogenous" |

Echocardiography Procedure Report Templates

TID 5200 Echocardiography Procedure Report

This Template forms the top of a content tree that allows an ultrasound device to describe the results of an adult echocardiography imaging procedure. It is instantiated at the root node. It can also be included in other Templates that need to incorporate echocardiography findings into another report as quoted evidence.

Type: Extensible
Order: Significant
Root: Yes

Table TID 5200. Echocardiography Procedure Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (125200, DCM, "Adult Echocardiography Procedure Report") | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | U | | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |
| 4 | > | CONTAINS | CONTAINER | DT (55111-9, LN, "Current Procedure Descriptions") | 1 | U | | |
| 5 | >> | CONTAINS | CODE | DT (125203, DCM, "Acquisition Protocol") | 1-n | M | | BCID 12001 "Ultrasound Protocol Types" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|-----------|--|
| 6 | > | CONTAINS | INCLUDE | DTID 5201 "Echocardiography Patient Characteristics" | 1 | U | | |
| 7 | > | CONTAINS | CONTAINER | EV (111028, DCM, "Image Library") | 1 | U | | |
| 8 | >> | CONTAINS | IMAGE | No purpose of reference | 1-n | M | | |
| 9 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-32600, SRT, "Left Ventricle") \$MeasType = DCID 12200 "Echocardiography Left Ventricle" |
| 10 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-32500, SRT, "Right Ventricle") \$MeasType = DCID 12204 "Echocardiography Right Ventricle" |
| 11 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-32300, SRT, "Left Atrium") \$MeasType = DCID 12205 "Echocardiography Left Atrium" |
| 12 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-32200, SRT, "Right Atrium") \$MeasType = DCID 12206 "Echocardiography Right Atrium" |
| 13 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-35400, SRT, "Aortic Valve") \$MeasType = DCID 12211 "Echocardiography Aortic Valve" |
| 14 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-35300, SRT, "Mitral Valve") \$MeasType = DCID 12207 "Echocardiography Mitral Valve" |
| 15 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-35200, SRT, "Pulmonic Valve") \$MeasType = DCID 12209 "Echocardiography Pulmonic Valve" |
| 16 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-35100, SRT, "Tricuspid Valve") \$MeasType = DCID 12208 "Echocardiography Tricuspid Valve" |
| 17 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-42000, SRT, "Aorta") \$MeasType = DCID 12212 "Echocardiography Aorta" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|----------------------------------|-----|----------|-----------|--|
| 18 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-44000, SRT, "Pulmonary artery") \$MeasType = DCID 12210 "Echocardiography Pulmonary Artery" |
| 19 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-48600, SRT, "Vena Cava") \$MeasType = DCID 12215 "Echocardiography Vena Cavae" |
| 20 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-48581, SRT, "Pulmonary Venous Structure") \$MeasType = DCID 12214 "Echocardiography Pulmonary Veins" |
| 21 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (T-39050, SRT, "Pericardial cavity") \$MeasType = DCID 12250 "Cardiac Ultrasound Common Linear Measurements" |
| 22 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (P5-30031, SRT, "Cardiac Shunt Study") \$MeasType = DCID 12217 "Echocardiography Cardiac Shunt" |
| 23 | > | CONTAINS | INCLUDE | DTID 5202 "Echo Section" | 1 | U | | \$SectionSubject = EV (D4-30000, SRT, "Congenital Anomaly of Cardiovascular System") \$MeasType = DCID 12218 "Echocardiography Congenital" |
| 24 | > | CONTAINS | INCLUDE | DTID 5204 "Wall Motion Analysis" | 1-n | U | | \$Procedure = DT (P5-B3121, SRT, "Echocardiography for Determining Ventricular Contraction") |

Content Item Descriptions

| | |
|--------|---|
| Row 24 | The wall motion findings of stress stage. There may be multiple Template instances to report wall motion findings of multiple stages. |
|--------|---|

TID 5201 Echocardiography Patient Characteristics

Patient Characteristic concepts in this Template, which may replicate attributes in the Patient Study Module, are included here as possible targets of by-reference relationships from other Content Items in the SR tree.

Note

Several of the concepts in this Template duplicate concepts in TID 1007 "Subject Context, Patient". The difference in use is that this Template has those concepts as primary observations of the patient, while in TID 1007 "Subject Context, Patient" the concepts are used to set (or reset) the context for other observations.

Type: Extensible
Order: Significant
Root: No

Table TID 5201. Echocardiography Patient Characteristics

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (121118, DCM, "Patient Characteristics") | 1 | M | | |
| 2 | > | CONTAINS | NUM | EV (121033, DCM, "Subject Age") | 1 | U | | UNITS = DCID 7456 "Units of Measure for Age" |
| 3 | > | CONTAINS | CODE | EV (121032, DCM, "Subject Sex") | 1 | U | | DCID 7455 "Sex" |
| 4 | > | CONTAINS | NUM | EV (8867-4, LN, "Heart Rate") | 1 | U | | |
| 5 | > | CONTAINS | NUM | EV (F-008EC, SRT, "Systolic Blood Pressure") | 1 | U | | |
| 6 | > | CONTAINS | NUM | EV (F-008ED, SRT, "Diastolic Blood Pressure") | 1 | U | | |
| 7 | > | CONTAINS | NUM | EV (8277-6, LN, "Body Surface Area") | 1 | M | | |
| 8 | >> | INFERRED FROM | CODE | EV (8278-4, LN, "Body Surface Area Formula") | 1 | U | | BCID 3663 "Body Surface Area Equations" |

TID 5202 Echo Section

This is a generic section heading Template for any of the anatomical headings. Measurements within a section heading appear as groups (by image mode, acquisition protocol, and/or protocol stage).

Table TID 5202. Parameters

| Parameter Name | Parameter Usage |
|------------------|---|
| \$SectionSubject | The subject modifier of the section heading container |
| \$MeasType | The concept name of the measurement |

Type: Extensible
Order: Significant
Root: No

Table TID 5202. Echo Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|-------------------------------------|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | \$SectionSubject |
| 3 | > | CONTAINS | CONTAINER | DT (125007, DCM, "Measurement Group") | 1-n | M | | |
| 4 | >> | HAS CONCEPT MOD | CODE | EV (G-0373, SRT, "Image Mode") | 1 | U | | BCID 12224 "Ultrasound Image Modes" |
| 5 | >> | HAS CONCEPT MOD | CODE | DT (125203, DCM, "Acquisition Protocol") | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|-----------|--|
| 6 | >> | HAS CONCEPT MOD | TEXT | DT (125203, DCM, "Acquisition Protocol") | 1 | U | | |
| 7 | >> | HAS ACQ CONTEXT | CODE | EV (18139-6, LN, "Stage") | 1 | U | | BCID 12002 "Ultrasound Protocol Stage Types" |
| 8 | >> | CONTAINS | INCLUDE | DTID 5203 "Echo Measurement" | 1-n | M | | \$Measurement = \$MeasType \$Method = CID 12227 "Echocardiography Measurement Method" |

Content Item Descriptions

| | |
|-----------|--|
| Rows 4, 5 | Type of measurement group. May be grouped by image mode, or acquisition protocol, or some other user or manufacturer designated classification |
| Row 7 | For measurements acquired in a staged protocol, all measurements in a measurement group are acquired at the identified stage. |

TID 5203 Echo Measurement**Table TID 5203. Parameters**

| Parameter Name | Parameter Usage |
|----------------|---|
| \$Measurement | Coded term or Context Group for Concept Name of measurement |
| \$Method | Value for Measurement Method |

Type: Extensible
Order: Significant
Root: No

Table TID 5203. Echo Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|----|----------|-----------|--|
| 1 | | | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = \$Measurement \$Method = \$Method \$TargetSite = BCID 12236 "Echo Anatomic Sites" \$TargetSiteMod = BCID 12237 "Echocardiography Anatomic Site Modifiers" |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C048, SRT, "Flow Direction") | 1 | U | | BCID 12221 "Flow Direction" |
| 3 | > | HAS CONCEPT MOD | CODE | EV (R-40899, SRT, "Respiratory Cycle Point") | 1 | U | | DCID 12234 "Respiration State" |
| 4 | > | HAS CONCEPT MOD | CODE | EV (R-4089A, SRT, "Cardiac Cycle Point") | 1 | U | | DCID 12233 "Cardiac Phase" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--------------------------------|----|----------|-----------|--|
| 5 | > | HAS ACQ CONTEXT | CODE | EV (G-0373, SRT, "Image Mode") | 1 | U | | DCID 12224 "Ultrasound Image Modes" |
| 6 | > | HAS ACQ CONTEXT | CODE | EV (111031, DCM, "Image View") | 1 | U | | BCID 12226 "Echocardiography Image View" |
| 7 | > | HAS ACQ CONTEXT | CODE | EV (18139-6, LN, "Stage") | 1 | U | | BCID 12002 "Ultrasound Protocol Stage Types" |

Content Item Descriptions

| | |
|-------|--|
| Row 1 | TID 300 specifies an "Equivalent Meaning of Concept Name" that allows the creating application to specify the preferred composed concept name representing the measurement and the associated post-coordination Concept Modifiers (e.g., the ASE terminology described in Section N.3 "Illustrative Mapping to ASE Concepts" in PS3.17). |
|-------|--|

TID 5204 Wall Motion Analysis

The Wall Motion Analysis Template is used to document wall motion scoring for any imaging modality.

Table TID 5204. Parameters

| Parameter Name | Parameter Usage |
|----------------|--|
| \$Procedure | The imaging procedure used for wall motion analysis. |

Type: Extensible
Order: Significant
Root: No

Table TID 5204. Wall Motion Analysis

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | \$Procedure |
| 3 | > | HAS ACQ CONTEXT | CODE | EV (18139-6, LN, "Stage") | 1 | U | | BCID 3207 "Stress Test Procedure Phases" |
| 4 | > | CONTAINS | IMAGE | EV (125201, DCM, "Illustration of Finding") | 1 | U | | |
| 5 | > | CONTAINS | TEXT | EV (18118-0, LN, "LV Wall Motion Segmental Findings") | 1 | U | | |
| 6 | > | CONTAINS | NUM | DT (125202, DCM, "LV Wall Motion Score Index") | 1 | U | | |
| 7 | >> | HAS CONCEPT MOD | CODE | EV (G-E048, SRT, "Assessment Scale") | 1 | M | | BCID 12238 "Wall Motion Scoring Schemes" |
| 8 | > | CONTAINS | CONTAINER | EV (121070, DCM, "Findings") | 1 | U | | |
| 9 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DT (T-D0772, SRT, "Myocardial Wall") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|------|--|-----|----------|---------------------|---|
| 10 | >> | CONTAINS | CODE | EV (18179-2, LN, "Wall Segment") | 1-n | M | | BCID 3717 "Myocardial Wall Segments" |
| 11 | >>> | HAS PROPERTIES | CODE | EV (F-32050, SRT, "Cardiac Wall Motion") | 1 | MC | IF row 12 is absent | DCID 3703 "Wall Motion" |
| 12 | >>> | HAS PROPERTIES | CODE | EV (G-C504, SRT, "Associated Morphology") | 1 | MC | IF row 11 is absent | DCID 3704 "Myocardium Wall Morphology Findings" |
| 13 | >>> | HAS PROPERTIES | NUM | DT (G-C1E3, SRT, "Score") | 1 | U | | |
| 14 | >>> | HAS PROPERTIES | NUM | EV (122624, DCM, "Wall Thickness Ratio end-systolic to end-diastolic") | 1 | U | | UNITS = DT (% , UCUM, "%") |

Content Item Descriptions

| | |
|-------------|---|
| Row 3 | The stage of the protocol at which these findings were scored. This row may be absent if this is a generic, non-staged scoring. |
| Row 4 | Image that graphically depicts the segments and their scores. |
| Row 5 | Text narration accompanying this stage. |
| Row 6 | The composite score computed from the average of the scored segments |
| Row 7 | The type of scoring scheme used to score this exam. |
| Row 8 | A container of all of the individual segment findings for this stage. The container shall be present if the observer makes an assessment, including the assessment of Not Visualized. It shall not be present if no evaluation was made. |
| Rows 11, 12 | Scar/thinning (in Row 12) may accompany akinesis and dyskinesis (in Row 11). |
| Row 13 | A numeric designation for the score. Score ranges vary, typically 0-4 or 0-5. Numeric scores may depend on wall motion findings as well as morphology findings. See Table 5204-1 for conventional numeric assignment schemes. The UCUM annotation code enables specifying the numeric range, ({L:N}, UCUM, "scale L:N"), where L and N are the lower and upper ends of the range. |

A description of the scoring schemes described in Table 5204-1 is available in *Recommendations for Quantitation of the Left Ventricle by Two-Dimensional Echocardiography*, Journal of the American Society of Echocardiography, Vol 2, No 5 358-367, Oct 1989.

Table 5204-1. Numeric Score Assignment for Segmental Findings

| Conventional Numeric Assignment | Wall Motion Finding or Morphology Finding | | |
|---------------------------------|--|--|--|
| | 4 Point | 5 Point | 5 Point with Graded Hypokinesis |
| -1 | (F-32050, SRT, "Cardiac Wall Motion") = (R-0030D, SRT, "Hyperkinesis") | (F-32050, SRT, "Cardiac Wall Motion") = (R-0030D, SRT, "Hyperkinesis") | (F-32050, SRT, "Cardiac Wall Motion") = (R-0030D, SRT, "Hyperkinesis") |
| 0 | (F-32050, SRT, "Cardiac Wall Motion") = (122288, DCM, "Not Visualized") | (F-32050, SRT, "Cardiac Wall Motion") = (122288, DCM, "Not Visualized") | (F-32050, SRT, "Cardiac Wall Motion") = (122288, DCM, "Not Visualized") |
| 1 | (F-32050, SRT, "Cardiac Wall Motion") = (R-00344, SRT, "Normal Wall Motion") | (F-32050, SRT, "Cardiac Wall Motion") = (R-00344, SRT, "Normal Wall Motion") | (F-32050, SRT, "Cardiac Wall Motion") = (R-00344, SRT, "Normal Wall Motion") |
| 1.5 | | | (F-32050, SRT, "Cardiac Wall Motion") = (R-00327, SRT, "Mild Hypokinesis") |

| Conventional Numeric Assignment | Wall Motion Finding or Morphology Finding | | |
|---------------------------------|---|--|--|
| | 4 Point | 5 Point | 5 Point with Graded Hypokinesis |
| 2 | (F-32050, SRT, "Cardiac Wall Motion") = (F-32056, SRT, "Hypokinesis") | (F-32050, SRT, "Cardiac Wall Motion") = (F-32056, SRT, "Hypokinesis") | (F-32050, SRT, "Cardiac Wall Motion") = (R-0032F, SRT, "Moderate Hypokinesis") |
| 2.5 | | | (F-32050, SRT, "Cardiac Wall Motion") = (R-00370, SRT, "Severe Hypokinesis") |
| 3 | (F-32050, SRT, "Cardiac Wall Motion") = (F-30004, SRT, "Akinesis") | (F-32050, SRT, "Cardiac Wall Motion") = (F-30004, SRT, "Akinesis") | (F-32050, SRT, "Cardiac Wall Motion") = (F-30004, SRT, "Akinesis") |
| 4 | (F-32050, SRT, "Cardiac Wall Motion") = (F-32052, SRT, "Dyskinesis") | (F-32050, SRT, "Cardiac Wall Motion") = (F-32052, SRT, "Dyskinesis") | (F-32050, SRT, "Cardiac Wall Motion") = (F-32052, SRT, "Dyskinesis") |
| 5 | | (G-C504, SRT, "Associated Morphology") = (D3-10510, SRT, "Ventricular Aneurysm") | (G-C504, SRT, "Associated Morphology") = (D3-10510, SRT, "Ventricular Aneurysm") |

TID 5220 Pediatric, Fetal and Congenital Cardiac Ultrasound Reports

This Template forms the top of a content tree that allows an ultrasound application to describe the results of a Cardiac Ultrasound imaging procedure. It is instantiated at the root node.

Type: Extensible
Order: Significant
Root: Yes

Table TID 5220. Pediatric, Fetal and Congenital Cardiac Ultrasound Reports

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | | CONTAINER | DCID 12245 "Cardiac Ultrasound Report Titles" | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |
| 4 | > | CONTAINS | CONTAINER | EV (18785-6, LN, "Indications for Procedure") | 1 | U | | |
| 5 | >> | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 12246 "Cardiac Ultrasound Indication for Study" |
| 6 | >> | CONTAINS | TEXT | EV (121071, DCM, "Finding") | 1 | U | | |
| 7 | > | CONTAINS | INCLUDE | DTID 3802 "Cardiovascular Patient History" | 1 | U | | |
| 8 | > | CONTAINS | INCLUDE | DTID 3602 "Cardiovascular Patient Characteristics" | 1 | U | | |
| 9 | > | CONTAINS | INCLUDE | DTID 5225 "Cardiac Ultrasound Fetal Characteristics" | 1-n | U | | No more than one inclusion per fetus |
| 10 | > | CONTAINS | INCLUDE | DTID 5226 "Cardiac Ultrasound Summary Section" | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|------------------------|--------------------------------------|
| 11 | > | CONTAINS | INCLUDE | DTID 5227 "Cardiac Ultrasound Fetal Summary Section" | 1-n | U | | No more than one inclusion per fetus |
| 12 | > | CONTAINS | CONTAINER | EV (111028, DCM, "Image Library") | 1 | U | | |
| 13 | >> | CONTAINS | IMAGE | No purpose of reference | 1-n | M | | |
| 14 | > | CONTAINS | INCLUDE | DTID 5221 "Cardiac Ultrasound Pediatric Echo Measurement Section" | 1 | U | | |
| 15 | > | CONTAINS | INCLUDE | DTID 5228 "Cardiac Ultrasound Fetal Measurement Section" | 1-n | UC | For Fetal Report only. | No more than one inclusion per fetus |

Content Item Descriptions

| | |
|--------|--|
| Row 3 | For Fetal Report, this row establishes the subject context of the mother. |
| Row 7 | For Fetal Report, this row will be the patient history of the mother. |
| Row 8 | For Fetal Report, this row will be the Patient Characteristics for the mother. |
| Row 10 | For Fetal Report, this row will be the Summary Section for the mother. |

TID 5221 Cardiac Ultrasound Pediatric Echo Measurement Section

Type: Extensible
Order: Significant
Root: No

Table TID 5221. Cardiac Ultrasound Pediatric Echo Measurement Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|-----------|---|
| 1 | | | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = DCID 12282 "Cardiac Ultrasound Venous Return Systemic Finding Sites" \$MeasType = DCID 12264 "Cardiac Ultrasound Venous Return Systemic Measurements" |
| 2 | | | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = DCID 12283 "Cardiac Ultrasound Venous Return Pulmonary Finding Sites" \$MeasType = DCID 12263 "Cardiac Ultrasound Venous Return Pulmonary Measurements" |
| 3 | | | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = DCID 12284 "Cardiac Ultrasound Atria and Atrial Septum Finding Sites" \$MeasType = DCID 12265 "Cardiac Ultrasound Atria and Atrial Septum Measurements" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|--|
| 4 | | | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = DCID 12285 "Cardiac Ultrasound Atrioventricular Valves Finding Sites" \$MeasType = DCID 12268 "Cardiac Ultrasound Atrioventricular Valves Measurements" |
| 5 | | | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = DCID 12286 "Cardiac Ultrasound Interventricular Septum Finding Sites" \$MeasType = DCID 12269 "Cardiac Ultrasound Interventricular Septum Measurements" |
| 6 | | | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = DCID 12287 "Cardiac Ultrasound Ventricles Finding Sites" \$MeasType = DCID 12259 "Cardiac Ultrasound Ventricles Measurements" |
| 8 | | | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = DCID 12288 "Cardiac Ultrasound Outflow Tracts Finding Sites" \$MeasType = DCID 12271 "Cardiac Ultrasound Outflow Tracts Measurements" |
| 9 | | | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = DCID 12289 "Cardiac Ultrasound Semilunar Valves, Annulus and Sinuses Finding Sites" \$MeasType = DCID 12272 "Cardiac Ultrasound Semilunar Valves, Annulate and Sinuses Measurements" |
| 10 | | | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = DCID 12290 "Cardiac Ultrasound Pulmonary Arteries Finding Sites" \$MeasType = DCID 12260 "Cardiac Ultrasound Pulmonary Artery" |
| 11 | | | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = DCID 12291 "Cardiac Ultrasound Aorta Finding Sites" \$MeasType = DCID 12274 "Cardiac Ultrasound Aorta Measurements" |
| 12 | | | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = DCID 12292 "Cardiac Ultrasound Coronary Arteries Finding Sites" \$MeasType = DCID 12275 "Cardiac Ultrasound Coronary Arteries Measurements" |
| 13 | | | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = DCID 12293 "Cardiac Ultrasound Aortopulmonary Connections Finding Sites" \$MeasType = DCID 12276 "Cardiac Ultrasound Aorto Pulmonary Connections Measurements" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|---|
| 14 | | | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = DCID 12294 "Cardiac Ultrasound Pericardium and Pleura Finding Sites" \$MeasType = DCID 12277 "Cardiac Ultrasound Pericardium and Pleura Measurements" |

TID 5222 Pediatric, Fetal and Congenital Cardiac Ultrasound Section

This is a generic section heading Template for any of the anatomical headings. Measurements within a section heading appear as groups (by image mode or acquisition protocol).

Table TID 5222. Parameters

| Parameter Name | Parameter Usage |
|------------------|---|
| \$SectionSubject | The subject modifier of the section heading container |
| \$MeasType | The concept name of the measurement |

Type: Extensible
Order: Significant
Root: No

Table TID 5222. Pediatric, Fetal and Congenital Cardiac Ultrasound Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (121070, DCM, "Findings") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | \$SectionSubject |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (P1-32006, SRT, "Heart valve replacement - prosthesis") | 1 | U | | DCID 230 "Yes-No" |
| 4 | > | CONTAINS | CONTAINER | DT (125007, DCM, "Measurement Group") | 1-n | M | | |
| 5 | >> | HAS CONCEPT MOD | CODE | EV (G-0373, SRT, "Image Mode") | 1 | U | | BCID 12224 "Ultrasound Image Modes" |
| 6 | >> | HAS CONCEPT MOD | TEXT | DT (125203, DCM, "Acquisition Protocol") | 1 | U | | |
| 7 | >> | CONTAINS | INCLUDE | DTID 5223 "Pediatric, Fetal and Congenital Cardiac Ultrasound Measurement" | 1-n | M | | \$Measurement = \$MeasType \$Method = CID 12227 "Echocardiography Measurement Method" |

TID 5223 Pediatric, Fetal and Congenital Cardiac Ultrasound Measurement

This Template provides for the post-coordination of a measurement with a variety of concept modifiers and acquisition context observations. When invoked from TID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section", the measurement concept is

implicitly post-coordinated with the concept modifiers of the Measurement Group (TID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" Rows 5 and 6), and with the Finding Site of the report section (TID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" Row 2). The finding site may be further specified within this Template by the Target Site and Target Site Modifiers (CID 12280 "Cardiac Ultrasound Target Sites" and CID 12281 "Cardiac Ultrasound Target Site Modifiers").

The implicit finding site inherited from TID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" can be made explicit by using the same finding site concept in the Target Site (the measurement concept modifier), rather than a term from CID 12280 "Cardiac Ultrasound Target Sites". This explicit post-coordination allows the use of one of the modifiers of CID 12281 "Cardiac Ultrasound Target Site Modifiers" to that finding site, as the Target Site Modifier requires an explicit Target Site in the measurement structure (TID 300 "Measurement" Rows 5 and 7). In fact, any child concept of the finding site in the SNOMED hierarchy may be used as the measurement Target Site.

The finding or target site may be identified by a concept from the SNOMED "clinical finding" or "morphological anomaly" hierarchies (e.g., D4-31220 "Atrial Septal Defect", or M-36700 "Effusion"), rather than the "anatomical structure" hierarchy. In this case, the meaning is inferred as "the anatomic location of the clinical finding or morphological anomaly, within the constraints of other implicit or explicit post-coordinated finding site concepts."

Note

Thus when TID 5221 "Cardiac Ultrasound Pediatric Echo Measurement Section" Row 14 invokes TID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" with the section finding site concept (T-39000, SRT, "Pericardium"), and TID 5223 "Pediatric, Fetal and Congenital Cardiac Ultrasound Measurement" Row 1 applies the target site (M-36700, SRT, "Effusion"), the effective finding site is "pericardial effusion".

Table TID 5223. Parameters

| Parameter Name | Parameter Usage |
|----------------|---|
| \$Measurement | Coded term or Context Group for Concept Name of measurement |
| \$Method | Value for Measurement Method |

Type: Extensible
Order: Significant
Root: No

Table TID 5223. Pediatric, Fetal and Congenital Cardiac Ultrasound Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|----|----------|-----------|---|
| 1 | | | INCLUDE | DTID 300 "Measurement" | 1 | M | | \$Measurement = \$Measurement \$Method = \$Method \$TargetSite = BCID 12280 "Cardiac Ultrasound Target Sites" \$TargetSiteMod = BCID 12281 "Cardiac Ultrasound Target Site Modifiers" \$Derivation = DCID 3838 "Diameter Derivation" |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121425, DCM, "Index") | 1 | U | | DCID 3455 "Index Methods" |
| 3 | > | HAS CONCEPT MOD | CODE | EV (G-C048, SRT, "Flow Direction") | 1 | U | | BCID 12221 "Flow Direction" |
| 4 | > | HAS CONCEPT MOD | CODE | EV (R-40899, SRT, "Respiratory Cycle Point") | 1 | U | | DCID 12234 "Respiration State" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|----|----------|-----------|--|
| 5 | > | HAS CONCEPT MOD | CODE | EV (R-4089A, SRT, "Cardiac Cycle Point") | 1 | U | | DCID 12233 "Cardiac Phase" |
| 6 | > | HAS ACQ CONTEXT | CODE | EV (G-0373, SRT, "Image Mode") | 1 | U | | DCID 12224 "Ultrasound Image Modes" |
| 7 | > | HAS ACQ CONTEXT | CODE | EV (111031, DCM, "Image View") | 1 | U | | BCID 12226 "Echocardiography Image View" |

Content Item Descriptions

| | |
|-------|--|
| Row 1 | For an index type of measurement, the concept name of this row 1 will still be the original measurement concept name; it is row 2 that gives the indication that row 1 is actually an index type of measurement. When this happens, the measurement value of row 1 should be a value after being indexed and the measurement unit of row 1 should be an index type of unit. For example, to insert a "Stroke Volume Index" measurement to this SR object, the concept name of row 1 will be "Stroke Volume", its numerical value will be the calculation result of "Stroke Volume /BSA" and its units are "ml/cm2". |
| Row 2 | When this row is available, the row 1 is an index calculation of the object. |

TID 5225 Cardiac Ultrasound Fetal Characteristics

Contains a list of Fetus Specific characteristics.

Type: Extensible
Order: Significant
Root: No

Table TID 5225. Cardiac Ultrasound Fetal Characteristics

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|---|--|
| 1 | | | CONTAINER | EV (125015, DCM, "Fetus Characteristics") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this Template is invoked more than once to describe more than one fetus. | |
| 3 | > | CONTAINS | NUM | EV (18185-9, LN, "Gestational Age") | 1 | U | | UNITS = DCID 7456 "Units of Measure for Age" |
| 4 | > | CONTAINS | DATE | EV (11778-8, LN, "EDD") | 1 | U | | |
| 5 | > | CONTAINS | NUM | EV (8867-4, LN, "Heart Rate") | 1 | U | | |

TID 5226 Cardiac Ultrasound Summary Section

Comments and observations of the procedure of immediate clinical interest.

Type: Extensible
Order: Significant
Root: No

Table TID 5226. Cardiac Ultrasound Summary Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-------------------------|---|
| 1 | | | CONTAINER | EV (121111, DCM, "Summary") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | MC | IF row 3 does not exist | BCID 12248 "Cardiac Ultrasound Summary Codes" |
| 3 | > | CONTAINS | TEXT | EV (121071, DCM, "Finding") | 1-n | MC | IF row 2 does not exist | |
| 4 | > | CONTAINS | CODE | EV (P0-009C3, SRT, "Surgical Procedure") | 1-n | U | | BCID 12247 "Pediatric, Fetal and Congenital Cardiac Surgical Interventions" |

TID 5227 Cardiac Ultrasound Fetal Summary Section

Comments and observations of the procedure of immediate clinical interest.

Type: Extensible
Order: Significant
Root: No

Table TID 5227. Cardiac Ultrasound Fetal Summary Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|--|---|
| 1 | | | CONTAINER | DT (125008, DCM, "Fetus Summary") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this Template is invoked more than once to describe more than one fetus | |
| 3 | > | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | MC | IF row 4 does not exist | BCID 12249 "Cardiac Ultrasound Fetal Summary Codes" |
| 4 | > | CONTAINS | TEXT | EV (121071, DCM, "Finding") | 1-n | MC | IF row 3 does not exist | |
| 5 | > | CONTAINS | CODE | EV (P0-009C3, SRT, "Surgical Procedure") | 1-n | U | | BCID 12247 "Pediatric, Fetal and Congenital Cardiac Surgical Interventions" |

TID 5228 Cardiac Ultrasound Fetal Measurement Section

Type: Extensible
Order: Significant
Root: No

Table TID 5228. Cardiac Ultrasound Fetal Measurement Section

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (125016, DCM, "Fetal Measurements") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|--|-----|----------|---|---|
| 2 | > | HAS OBS CONTEXT | INCLUDE | DTID 1008 "Subject Context, Fetus" | 1 | MC | IF this Template is invoked more than once to describe more than one fetus. | |
| 3 | > | CONTAINS | INCLUDE | DTID 300 "Measurement" | 1-n | U | | \$Measurement = DCID 12279 "Cardiac Ultrasound Fetal General Measurements" |
| 4 | > | CONTAINS | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = EV (T-F6845, SRT, "Ductus arteriosus") \$MeasType = DCID 12218 "Echocardiography Congenital" |
| 5 | > | CONTAINS | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = EV (T-F6806, SRT, "Ductus venosus") \$MeasType = DCID 12218 "Echocardiography Congenital" |
| 6 | > | CONTAINS | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = EV (T-F1810, SRT, "Umbilical artery") \$MeasType = DCID 12218 "Echocardiography Congenital" |
| 7 | > | CONTAINS | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = EV (T-D03B4, SRT, "Umbilical vein") \$MeasType = DCID 12218 "Echocardiography Congenital" |
| 8 | > | CONTAINS | INCLUDE | DTID 5222 "Pediatric, Fetal and Congenital Cardiac Ultrasound Section" | 1-n | U | | \$SectionSubject = EV (T-45600, SRT, "Middle cerebral artery") \$MeasType = DCID 12218 "Echocardiography Congenital" |

Simplified Adult Echocardiography Templates

The templates that comprise the Simplified Adult Echocardiography Report are interconnected as in Figure A-10b.

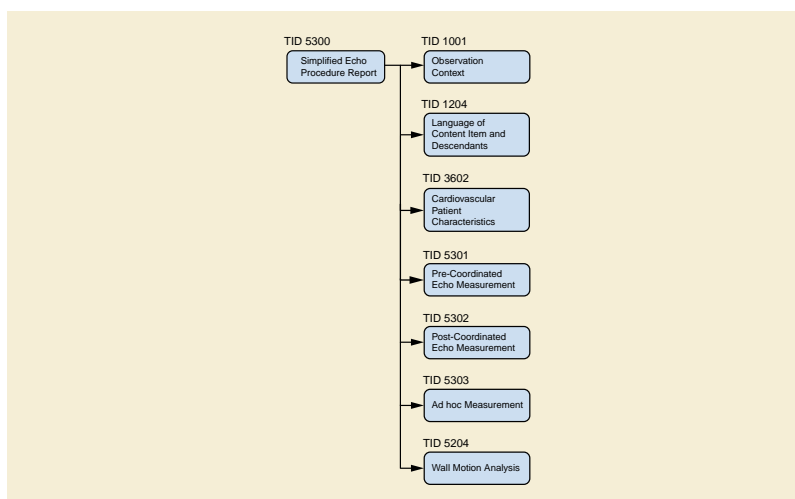


Figure A-10b. Simplified Adult Echocardiography Template Structure

TID 5300 Simplified Echo Procedure Report

This template forms the top of a content tree that allows an ultrasound device to describe the results of an adult echocardiography imaging procedure.

The template is instantiated at the root node. It can also be included in other templates that need to incorporate echocardiography findings into another report as quoted evidence.

This template does not include an Image Library. Image Content Items in the Echo Measurement templates (for example to indicate Source of Measurement) shall be included with by-value relationships, not with by-reference relationships.

Measurements in this template (except for the Wall Motion Analysis) are collected into one of three containers, each with a specific sub-template and constraints appropriate to the purpose of the container.

- Pre-coordinated Measurements
 - Are fully standardized measurements (many taken from the ASE practice guidelines).
 - Each has a single pre-coordinated standard code that fully captures the semantics of the measurement.
 - The only modifiers permitted are to indicate coordinates where the measurement was taken, provide a brief display label, and indicate which of a set of repeated measurements is the preferred value. Other modifiers are not permitted.
- Post-coordinated Measurements
 - Are non-standardized measurements that are performed with enough regularity to merit the control and configuration to capture the full semantics of the measurement. For example these measurements may include those configured on the cart by the vendor or user site. Some of these may be variants of the Pre-coordinated Measurements.
 - A set of mandatory and conditional modifiers with controlled vocabularies capture the essential semantics in a uniform way.
 - A single pre-coordinated code is also provided so that when the same type of measurement is encountered in the future, it is not necessary to parse and evaluate the full constellation of modifier values. Since this measurement has not been fully standardized, the pre-coordinated code may use a private coding scheme (e.g., from the vendor or user site).
- Adhoc Measurements
 - Are non-standardized measurements that do not merit the effort to track or configure all the details necessary to populate the set of modifiers required for a post-coordinated measurement.
 - The measurement code describes the elementary property measured.

- Modifiers provide a brief display label and indicate coordinates where the measurement was taken. Other modifiers are not permitted.

For an example of this encoding and a discussion of the benefits and use cases, see Annex CCCC "Populating The Simplified Echo Procedure Report Template (Informative)" in PS3.17.

Type: Non-Extensible

Order: Significant

Root: Yes

Table TID 5300. Simplified Echo Procedure Report

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|-----------|---|
| 1 | | | CONTAINER | EV (125200, DCM, "Adult Echocardiography Procedure Report") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | U | | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |
| 4 | > | CONTAINS | CONTAINER | DT (55111-9, LN, "Current Procedure Descriptions") | 1 | U | | |
| 5 | >> | CONTAINS | CODE | DT (125203, DCM, "Acquisition Protocol") | 1-n | M | | BCID 12001 "Ultrasound Protocol Types" |
| 6 | > | CONTAINS | CONTAINER | EV (18785-6, LN, "Indications for Procedure") | 1 | U | | |
| 7 | >> | CONTAINS | CODE | EV (121071, DCM, "Finding") | 1-n | U | | DCID 12246 "Cardiac Ultrasound Indication for Study" |
| 8 | >> | CONTAINS | TEXT | EV (121071, DCM, "Finding") | 1 | U | | |
| 9 | > | CONTAINS | INCLUDE | DTID 3602 "Cardiovascular Patient Characteristics" | 1 | U | | |
| 10 | > | CONTAINS | CONTAINER | EV (125301, DCM, "Pre-coordinated Measurements") | 1 | M | | |
| 11 | >> | CONTAINS | INCLUDE | DTID 5301 "Pre-coordinated Echo Measurement" | 1-n | M | | \$Measurement = DCID 12300 "Core Echo Measurements" \$Preferred = DCID 12301 "Measurement Selection Reasons" |
| 12 | > | CONTAINS | CONTAINER | EV (125302, DCM, "Post-coordinated Measurements") | 1 | M | | |
| 13 | >> | CONTAINS | INCLUDE | DTID 5302 "Post-coordinated Echo Measurement" | 1-n | U | | \$Preferred = DCID 12301 "Measurement Selection Reasons" |
| 14 | > | CONTAINS | CONTAINER | EV (125303, DCM, "Adhoc Measurements") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|---|-----|----------|-----------|---|
| 15 | >> | CONTAINS | INCLUDE | DTID 5303 "Adhoc Measurement" | 1-n | U | | \$Property = DCID 12304 "Echo Measured Properties" |
| 16 | > | CONTAINS | INCLUDE | DTID 5204 "Wall Motion Analysis" | 1-n | U | | \$Procedure = DT (P5-B3121, SRT, "Echocardiography for Determining Ventricular Contraction") |
| 17 | > | CONTAINS | CONTAINER | EV (125310, DCM, "Staged Measurements") | 1 | U | | |
| 18 | >> | HAS ACQ CONTEXT | CODE | EV (18139-6, LN, "Stage") | 1 | M | | BCID 3207 "Stress Test Procedure Phases" |
| 19 | >> | CONTAINS | CONTAINER | EV (125301, DCM, "Pre-coordinated Measurements") | 1 | M | | |
| 20 | >>> | CONTAINS | INCLUDE | DTID 5301 "Pre-coordinated Echo Measurement" | 1-n | U | | \$Measurement = DCID 12300 "Core Echo Measurements" \$Preferred = DCID 12301 "Measurement Selection Reasons" |
| 21 | >> | CONTAINS | CONTAINER | EV (125302, DCM, "Post-coordinated Measurements") | 1 | M | | |
| 22 | >>> | CONTAINS | INCLUDE | DTID 5302 "Post-coordinated Echo Measurement" | 1-n | U | | \$Preferred = DCID 12301 "Measurement Selection Reasons" |
| 23 | >> | CONTAINS | CONTAINER | EV (125303, DCM, "Adhoc Measurements") | 1 | M | | |
| 24 | >>> | CONTAINS | INCLUDE | DTID 5303 "Adhoc Measurement" | 1-n | U | | \$Property = DCID 12304 "Echo Measured Properties" |

Content Item Descriptions

| | |
|--------|---|
| Row 8 | A text string containing one or more sentences describing one or more indications, possibly with additional comments from the physician or tech. |
| Row 11 | <p>These are measurements from a standardized list of pre-coordinated codes. See CID 12300 "Core Echo Measurements". Measurements which do not correspond to the full semantics of one of the pre-coordinated codes in CID 12300 can likely be encoded in Row 13 instead.</p> <p>Multiple instances of the same measurement code may be present in the container. Each instance represents a different sample or derivation.</p> <p>This template makes no requirement that any or all samples be sent. For example, a mean value of all the samples of a given measurement could be sent without sending all or any of the samples from which the mean was calculated. Device configuration and/or operator interactions determine what measurements are sent.</p> |

| | |
|------------|---|
| Row 13 | <p>These are measurements that can be encoded using a standardized structure of post-coordinated codes. Measurements which correspond to the full semantics of one of the pre-coordinated codes in CID 12300 "Core Echo Measurements" should be encoded in Row 11 instead.</p> <p>\$Measurement shall be provided, but is not constrained to a CID.</p> <p>Multiple instances of the same measurement code may be present in the container. Each instance represents a different sample or derivation.</p> <p>This template makes no requirement that any or all samples be sent. For example, a mean value of all the samples of a given measurement could be sent without sending all or any of the samples from which the mean was calculated. Device configuration and/or operator interactions determine what measurements are sent.</p> |
| Row 15 | <p>These are adhoc measurements encoded with minimal semantics.</p> <p>Row 13 can be used to encode measurements with more complete semantics.</p> <p>\$Units shall be provided, but is not constrained to a CID.</p> <p>Device configuration and/or operator interactions determine what measurements are sent.</p> |
| Rows 17-24 | When present, these rows contain measurements and associate them with a specific stage of a staged procedure. |

TID 5301 Pre-coordinated Echo Measurement

This template codes numeric echo measurements where most of the details about the nature of the measurement have been pre-coordinated in the measurement code. In contrast, see TID 5302 "Post-coordinated Echo Measurement".

The pre-coordinated measurement code is provided when this Template is included from a parent Template.

Table TID 5301. Parameters

| Parameter Name | Parameter Usage |
|----------------|---|
| \$Measurement | Coded term or Context Group for Concept Name of measurement |
| \$Preferred | Flag the preferred value by indicating the reason it was selected as preferred. |

Type: Non-Extensible
Order: Significant
Root: No

Table TID 5301. Pre-coordinated Echo Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|--|---|
| 1 | | | NUM | \$Measurement | 1 | M | | |
| 2 | > | HAS PROPERTIES | CODE | EV (121404, DCM, "Selection Status") | 1 | MC | IFF this measurement has been selected as the single preferred value for the measured concept. | \$Preferred = MemberOf {DCID 12301 "Measurement Selection Reasons"} |
| 3 | > | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | MC | IFF this measurement is not a sample. | EV R-00317, SRT, "Mean") |
| 4 | > | | INCLUDE | DTID 320 "Image or Spatial Coordinates" | 1-n | U | | \$Purpose = EV (121112, DCM, "Source of measurement") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|---|
| 5 | > | | INCLUDE | DTID 321 "Waveform or Temporal Coordinates" | 1-n | U | | \$Purpose = EV (121112, DCM, "Source of measurement") |
| 6 | > | HAS PROPERTIES | TEXT | EV (125309, DCM, "Short Label") | 1 | U | | |

Content Item Descriptions

| | |
|-------|--|
| Row 2 | <p>The reason that this value was selected as the preferred value for the measured concept.</p> <p>The parent template may allow TID 5301 "Pre-coordinated Echo Measurement" to be included multiple times with the same Measurement Concept Name, for example to allow multiple samples of the measurement.</p> <p>A given Measurement Concept Name might appear only once in the instance, in which case this this row may or may not be present. A given Measurement Concept Name may appear multiple times, however this row shall not be present for more than one value of the given Measurement Concept Name. E.g. multiple measurements of (11706-9, LN, "Aortic Valve Peak Systolic Flow") may be present, but only one may be selected as preferred.</p> |
| Row 3 | <p>The method used to derive this measurement value from multiple samples of the Measurement Concept Name.</p> <p>If Row 3 is not present, then this measurement value is simply a single sample of the Measurement Concept Name.</p> <p>Note</p> <p>A measurement value that is a mean value of other measurements and was also selected as the preferred value because it is the mean will have both Row 2 and Row 3 present.</p> |
| Row 6 | <p>This may be used to label the measurement value when space is limited on the screen or report page. E.g. a Short Label of "LVIDD" might be provided for a measurement of the left ventricle internal diameter at end diastole.</p> <p>Note</p> <p>Short Labels are not standardized and may omit details of the measurement, thus it is not recommended to use them for purposes such as matching.</p> |

TID 5302 Post-coordinated Echo Measurement

This template codes numeric echo measurements where most of the details about the nature of the measurement have been post-coordinated in modifiers and acquisition context. In contrast, see TID 5301 "Pre-coordinated Echo Measurement" .

This template is intended to be used for User-defined and Vendor-defined Echo Measurements.

Several modifier rows are conditional and are omitted when the modifier concept is not significant for the measurement encoded in the item. When these modifiers are included by the sender, it indicates that the modifier concept is significant and receivers will generally treat the measurements differently than similar measurements sent that omit that modifier.

Note

The codes in the CIDs referenced below were sufficient to accurately encode all the best practice echo measurements recommended by the ASE. If, however, a new code is needed to record a specific User-defined or Vendor-defined measurement, most of the CIDs are extensible. It is not unreasonable to expect that measurements might be made at other Finding Sites than those listed in CID 12305 "Basic Echo Anatomic Sites" , or using Measurement Methods beyond those listed in CID 12227 "Echocardiography Measurement Method" .

The concept modifiers in the template below were sufficient to accurately encode all the best practice echo measurements recommended by the ASE. Although TID 5302 "Post-coordinated Echo Measurement" is extensible and adding new modifiers is not prohibited, the meaning and significance of such new modifiers will generally not be understood by receiving systems, delaying or preventing import of such measurements. Further, adding modifiers that replicate the meaning of an existing modifier is prohibited.

If such measurements cannot be encoded with the following structure, an implementation may choose to code the measurement in TID 5303 "Adhoc Measurement" , or to use TID 5200 "Echocardiography Procedure Report" instead of TID 5300 "Simplified Echo Procedure Report" .

Table TID 5302. Parameters

| Parameter Name | Parameter Usage |
|----------------|---|
| \$Measurement | Coded term or Context Group for Concept Name of measurement |
| \$Preferred | Flag the preferred value by indicating the reason it was selected as preferred. |

Type: Extensible
Order: Significant
Root: No

Table TID 5302. Post-coordinated Echo Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|--|--|
| 1 | | | NUM | \$Measurement | 1 | M | | |
| 2 | > | HAS PROPERTIES | CODE | EV (121050, DCM, "Equivalent Meaning of Concept Name") | 1-n | U | | |
| 3 | > | HAS PROPERTIES | CODE | EV (121404, DCM, "Selection Status") | 1 | MC | IFF this measurement has been selected as the single preferred value for the measured concept. | \$Preferred =MemberOf {DCID 12301 "Measurement Selection Reasons"} |
| 4 | > | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | MC | IFF this measurement is not a sample. | EV R-00317, SRT, "Mean") |
| 5 | > | | INCLUDE | DTID 320 "Image or Spatial Coordinates" | 1-n | U | | \$Purpose =EV (121112, DCM, "Source of measurement") |
| 6 | > | | INCLUDE | DTID 321 "Waveform or Temporal Coordinates" | 1-n | U | | \$Purpose = EV (121112, DCM, "Source of measurement") |
| 7 | > | HAS CONCEPT MOD | CODE | EV (125306, DCM, "Measurement Type") | 1 | M | | DCID 12303 "Echo Measurement Types" |
| 8 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DCID 12305 "Basic Echo Anatomic Sites" |
| 9 | > | HAS CONCEPT MOD | CODE | EV (125305, DCM, "Finding Observation Type") | 1 | M | | DCID 12302 "Echo Finding Observation Types" |
| 10 | > | HAS CONCEPT MOD | CODE | EV (125307, DCM, "Measured Property") | 1 | M | | DCID 12304 "Echo Measured Properties" |
| 11 | > | HAS CONCEPT MOD | CODE | EV (G-C048, SRT, "Flow Direction") | 1 | MC | IFF Row 9 is (PA-50030, SRT, "Hemodynamic Measurements") and the Flow Direction is significant for this measurement. | DCID 12306 "Echo Flow Directions" |
| 12 | > | HAS CONCEPT MOD | CODE | EV (G-C036, SRT, "Measurement Method") | 1 | MC | IFF the Measurement Method is significant for this measurement. | DCID 12227 "Echocardiography Measurement Method" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|--|----|----------|--|---|
| 13 | > | HAS ACQ CONTEXT | CODE | EV (G-0373, SRT, "Image Mode") | 1 | MC | IFF the Image Mode is significant for this measurement. | DCID 12224 "Ultrasound Image Modes" |
| 14 | > | HAS ACQ CONTEXT | CODE | EV (111031, DCM, "Image View") | 1 | MC | IFF the Image View is significant for this measurement. | DCID 12226 "Echocardiography Image View" |
| 15 | > | HAS CONCEPT MOD | CODE | EV (R-4089A, SRT, "Cardiac Cycle Point") | 1 | MC | IFF the Cardiac Cycle Point is significant for this measurement. | DCID 12307 "Cardiac Phases and Time Points" |
| 16 | > | HAS CONCEPT MOD | CODE | EV (R-40899, SRT, "Respiratory Cycle Point") | 1 | MC | IFF the Respiratory Cycle Point is significant for this measurement. | DCID 12234 "Respiration State" |
| 17 | > | HAS CONCEPT MOD | CODE | EV (125308, DCM, "Measurement Divisor") | 1 | MC | IFF the value of Row 7 is (125313, DCM, "Indexed") or (G-D750, SRT, "Ratio") or (125314, DCM, "Fractional Change") | |
| 18 | > | HAS PROPERTIES | TEXT | EV (125309, DCM, "Short Label") | 1 | U | | |

Content Item Descriptions

| | |
|-------|--|
| Row 1 | <p>A fully pre-coordinated code that incorporates all the semantics of Rows 7-17 for this measurement.</p> <p>The code is intended to allow parsers to recognize post-coordinated measurements that have been previously encountered, thus facilitating incorporation of the measurement into databases, report templates, registries, etc. Typically these codes will be from a vendor or site specific coding scheme, e.g., 99ACME. Sending the same code consistently in different reports will depend on the recording system maintaining a stable list of these pre-coordinated codes. Such a list might be configured or internally generated and managed.</p> <p>This shall be populated by the recording system. If the recording system does not have a method to ensure that all occurrences of the same post-coordinated measurement use the same code, it shall use the code (125304, DCM, "Untrackable Measurement").</p> <p>Note</p> <ol style="list-style-type: none"> Two measurements with the same pre-coordinated code have, by definition, the same semantics (except for "Untrackable Measurements") Two measurements with the same constellation of modifier values have the same semantics but may have different pre-coordinated codes because they <ul style="list-style-type: none"> come from carts of different vendors who don't share the same code table come from carts of the same vendor, but the carts don't share the same code table come from the same cart, but it's code table has been modified come from the same cart, but it does not maintain a code table Two measurements with the same constellation of modifier values and different pre-coordinated codes have the same semantics and the receiver is entitled to treat them as the same (with respect to the scope of those modifiers) Recommended units for various Measured Properties (Row 10) can be found in the Units column of CID 12304 "Echo Measured Properties" . When the Measurement Type (Row 7) is (125313, DCM, "Indexed") , (G-D750, SRT, "Ratio") or (125314, DCM, "Fractional Change") , the Units for Row 1 corresponds to the fully calculated \$Measurement, incorporating both the numerator (Row 10) and the denominator (Row 17). E.g. a measure of Left Ventricular Outflow Tract Diameter / BSA would have units of (cm/m2, UCUM, "cm/m2") in Row 1, (125313, DCM, "Indexed") in Row 7, (M-02550, SRT, "Diameter") in Row 10, and (8277-6, LN, "Body Surface Area") in Row 17. |
| Row 2 | <p>One or more additional fully pre-coordinated codes which are semantically equivalent to the code in Row 1.</p> <p>This may be used to communicate known mappings, such as to national registry codes or other vendors' codes.</p> |
| Row 3 | <p>The reason that this value was selected as the preferred value for the measured concept.</p> <p>The parent template may allow TID 5301 "Pre-coordinated Echo Measurement" to be included multiple times with the same Measurement Concept Name, for example to allow multiple samples of the measurement.</p> <p>A given Measurement Concept Name might appear only once in the instance, in which case this this row may or may not be present. A given Measurement Concept Name may appear multiple times, however this row shall not be present for more than one value of a given measured concept. E.g. multiple measurements of (11706-9, LN, "Aortic Valve Peak Systolic Flow") may be present, but only one may be selected as preferred.</p> |

| | |
|--------|---|
| Row 4 | <p>The method used to derive this measurement value from multiple samples of the Measurement Concept Name.</p> <p>If Row 3 is not present, then this measurement value is simply a single sample of the Measurement Concept Name.</p> <p>Note</p> <ol style="list-style-type: none"> 1. A measurement value that is a mean value of other samples and was also selected as the preferred value because it is the mean will have both Row 2 and Row 3 present. 2. This row is not used to record whether the measurement value is a direct measurement vs a measurement calculated from an equation. Such information is recorded in Row 7. |
| Row 8 | <p>The finding site reflects the anatomical location where the measurement is taken.</p> <p>CID 12305 "Basic Echo Anatomic Sites" contains the codes which proved to be sufficient for mapping the full set of ASE standard measurements. It is recommended to use these locations unless a more detailed location is truly necessary.</p> |
| Row 9 | <p>The finding observation type indicates the type of observation made at the finding site to produce the measurement.</p> <p>In many cases, for example Aortic Root Diameter, the structure of the finding site is being observed.</p> <p>In other cases, for example Mitral Valve Regurgitant Flow Peak Velocity, the finding site is the mitral valve, the hemodynamic flow (not the valve structure) is being observed, the measured property is the peak velocity, and the flow direction is retrograde.</p> |
| Row 17 | <p>The pre-coordinated code for the measurement that has been used as the denominator of this measurement. Only applies to measurements of type Indexed, Ratio or Fractional Change.</p> <p>The measurement referenced as the Measurement Divisor shall be present in the instance in which it is used.</p> <p>When Row 17 is present, any values in Rows 5-6, 8-16 shall reflect the numerator of the measurement rather than the Index, Ratio or Fractional Change as a whole. The rest of the rows, including the pre-coordinated measurement value, the pre-coordinated measurement code, the units and the short label, reflect the Index, Ratio or Fractional Change as a whole. E.g. in the case of an Indexed measurement, the value recorded in Row 1 has already been divided by the Index referenced in Row 17, and the Units in Row 1 match the indexed value, not the numerator Property described in Row 10.</p> <p>For a measurement of type Indexed, the numerator is divided by the Measurement Divisor.</p> <p>For a measurement of type Ratio, the numerator is divided by the Measurement Divisor and is unitless.</p> <p>For a measurement of type Fractional Change, the numerator is first subtracted from the Measurement Divisor and the result divided by the Measurement Divisor (i.e., (Divisor - Numerator) / Divisor).</p> |
| Row 18 | <p>This may be used to label the measurement value when space is limited on the screen or report page. E.g. a Short Label of "LVIDD" might be provided for a measurement of the left ventricle internal diameter at end diastole.</p> <p>Note</p> <p>Short Labels are not standardized and may omit details of the measurement, thus it is not recommended to use them for purposes such as matching.</p> |

TID 5303 Adhoc Measurement

This Template codes numeric echo measurements where most of the details about the nature of the measurement are not communicated. The measurement is identified in terms of the property measured, such as Length, Diameter, Area, Velocity etc. and some measurement context may be established by reference to spatial coordinates on an image or a waveform. A displayable label is included but there is no managed code identifying the measurement.

The template is intended to be used to include adhoc, one-time measurements whose need is determined during imaging exam or reviewing session.

Measurements that are taken in an adhoc fashion but are selected from the set of pre-coordinated or post-coordinated measurements that are configured on the Ultrasound System should be coded using TID 5301 "Pre-coordinated Echo Measurement" or TID 5302 "Post-coordinated Echo Measurement".

Table TID 5303. Parameters

| Parameter Name | Parameter Usage |
|----------------|-------------------------|
| \$Property | Property being measured |

Type: Non-Extensible
Order: Significant
Root: No

Table TID 5303. Adhoc Measurement

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|-----|----------|-----------|---|
| 1 | | | NUM | \$Property | 1 | M | | |
| 2 | > | | INCLUDE | DTID 320 "Image or Spatial Coordinates" | 1-n | U | | \$Purpose = EV (121112, DCM, "Source of measurement") |
| 3 | > | | INCLUDE | DTID 321 "Waveform or Temporal Coordinates" | 1-n | U | | \$Purpose = EV (121112, DCM, "Source of measurement") |
| 4 | > | HAS PROPERTIES | TEXT | EV (125309, DCM, "Short Label") | 1 | M | | |

Content Item Descriptions

| | |
|-------|---|
| Row 4 | <p>This may be used to label the measurement value when space is limited on the screen or report page. E.g. a Short Label of "LVIDD" might be provided for a measurement of the left ventricle internal diameter at end diastole.</p> <p>Note</p> <p>Short Labels are not standardized and may omit details of the measurement, thus it is not recommended to use them for purposes such as matching.</p> |
|-------|---|

Implantation Plan SR Document Templates

The Templates that comprise the Implantation Plan SR Document IOD are interconnected as in Figure A-11.

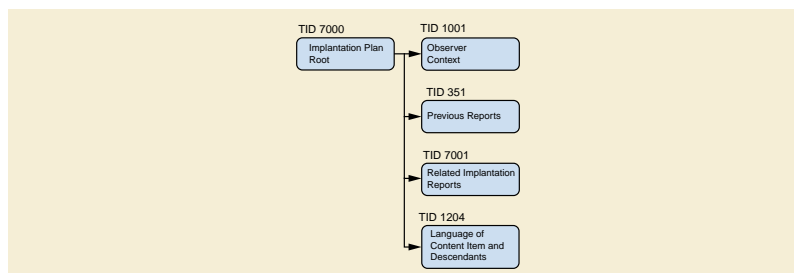


Figure A-11. Implantation Plan SR Document IOD Template Structure

TID 7000 Implantation Plan

This Template contains all the necessary information to position an Implant Assembly and its Components in a patient. Therefore, all the Components that comprise an Implant Assembly are listed. If the Implant Assembly consists of more than one Component, the relation between the Components will be described as well. It is also possible to describe the registration between the Components and the patient and between the Components themselves.

To reference the Components within this document the Implantation Plan Component ID is used.

The Component Connection links two Implantation Plan Components in a commutative way. This means that for each link between A and B only one Component Connection has to be defined and not two for A-B and B-A.

The terminology used is defined by illustration using the example in Figure A-12.

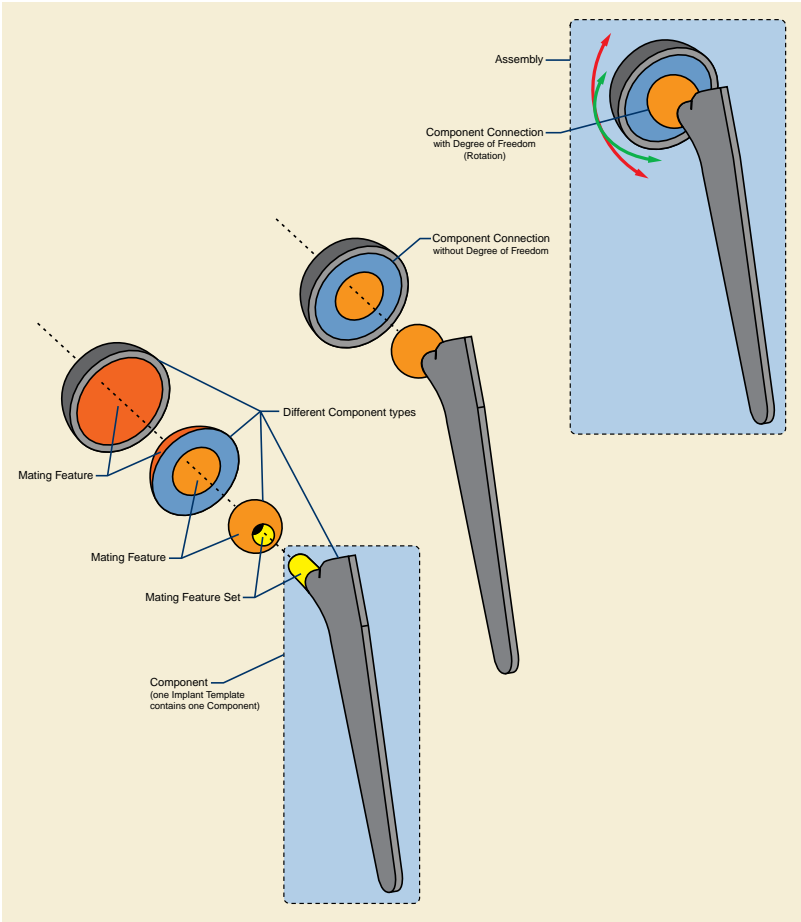


Figure A-12. Implant Assembly and Components Terminology

Type: Extensible
Order: Significant
Root: Yes

Table TID 7000. Implantation Plan

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---------------------------------------|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (112345, DCM, "Implantation Plan") | 1 | M | | Root node |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|------|-----------------|-----------|---|-----|----------|--|--|
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | U | | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |
| 4 | > | CONTAINS | INCLUDE | DTID 351 "Previous Reports" | 1 | MC | IFF previous Implantation Plan Documents exist | Shall only reference other Implantation Plan Documents |
| 5 | > | CONTAINS | INCLUDE | DTID 7001 "Related Implantation Reports" | 1 | MC | IFF related Implantation Plan Documents exist that are not referenced by row 4 | Shall only reference other Implantation Plan Documents |
| 6 | > | CONTAINS | CONTAINER | EV (112360, DCM, "Implant Component List") | 1 | M | | |
| 7 | >> | CONTAINS | COMPOSITE | EV (112366, DCM, "Implant Assembly Template") | 1 | U | | References an Implant Assembly Template SOP Instance |
| 8 | >> | CONTAINS | CONTAINER | EV (112346, DCM, "Selected Implant Component") | 1-n | M | | |
| 9 | >>> | CONTAINS | TEXT | EV (112347, DCM, "Component ID") | 1 | M | | |
| 10 | >>> | CONTAINS | CODE | EV (112370, DCM, "Component Type") | 1 | MC | IFF Row 8 contains more than one item. | DCID 7306 "Human Hip Implant Planning Landmarks" |
| 11 | >>> | CONTAINS | COMPOSITE | No purpose of reference | 1 | M | | References an Implant Template Storage SOP Instance |
| 12 | >>> | CONTAINS | UIDREF | EV (112227, DCM, "Frame Of Reference UID") | 1 | M | | |
| 13 | >>> | CONTAINS | COMPOSITE | EV (112371, DCM, "Manufacturer Implant Template") | 1 | M | | References an Implant Template Storage SOP Instance |
| 14 | > | CONTAINS | CONTAINER | EV (112355, DCM, "Assembly") | 1-n | U | | |
| 15 | >> | CONTAINS | CONTAINER | EV (112350, DCM, "Component Connection") | 1-n | M | | |
| 16 | >>> | CONTAINS | CONTAINER | EV (112374, DCM, "Connected Implantation Plan Component") | 2 | M | | |
| 17 | >>>> | CONTAINS | TEXT | EV (112347, DCM, "Component ID") | 1 | M | | Defined in the Implant Component List CONTAINER |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-------|-----------------|-----------|---|-----|----------|---|---|
| 18 | >>>> | CONTAINS | TEXT | EV (112351, DCM, "Mating Feature Set ID") | 1 | M | | Only one Component Connection per Mating Feature Set is allowed |
| 19 | >>>> | CONTAINS | TEXT | EV (112352, DCM, "Mating Feature ID") | 1 | M | | |
| 20 | >>>> | CONTAINS | CONTAINER | EV (112362, DCM, "Degrees of Freedom Specification") | 1-n | U | | |
| 21 | >>>>> | CONTAINS | TEXT | EV (112363, DCM, "Degree of Freedom ID") | 1 | M | | |
| 22 | >>>>> | CONTAINS | NUM | EV (112376, DCM, "Degree of Freedom Exact Translational Value") | 1 | MC | IFF Row 23, 24, 25, 26 and 27 are absent | UNITS = EV (mm, UCUM, "mm") |
| 23 | >>>>> | CONTAINS | NUM | EV (112377, DCM, "Degree of Freedom Minimum Translational Value") | 1 | MC | IFF row 22, 25, 26, and 27 are absent | UNITS = EV (mm, UCUM, "mm") |
| 24 | >>>>> | CONTAINS | NUM | EV (112378, DCM, "Degree of Freedom Maximum Translational Value") | 1 | MC | IFF row 22, 25, 26, and 27 are absent | UNITS = EV (mm, UCUM, "mm") |
| 25 | >>>>> | CONTAINS | NUM | EV (112379, DCM, "Degree of Freedom Exact Rotational Value") | 1 | MC | IFF row 22, 23, 24, 26 and 27 are absent | UNITS = EV (deg, UCUM, "degree") |
| 26 | >>>>> | CONTAINS | NUM | EV (112380, DCM, "Degree of Freedom Minimum Rotational Value") | 1 | MC | IFF row 22, 23, 24 and 25 are absent | UNITS = EV (deg, UCUM, "degree") |
| 27 | >>>>> | CONTAINS | NUM | EV (112381, DCM, "Degree of Freedom Maximum Rotational Value") | 1 | MC | IFF row 22, 23, 24 and 25 are absent | UNITS = EV (deg, UCUM, "degree") |
| 28 | > | CONTAINS | CONTAINER | EV (112358, DCM, "Information used for planning") | 1 | U | | |
| 29 | >> | CONTAINS | CODE | EV (112375, DCM, "Planning Method") | 1 | U | | BCID 7320 "Planning Methods" |
| 30 | >> | CONTAINS | IMAGE | EV (112354, DCM, "Patient Image") | 1-n | U | | |
| 31 | >>> | HAS PROPERTIES | NUM | EV (111026, DCM, "Horizontal Pixel Spacing") | 1 | M | | UNITS = EV (mm/{pixel}, UCUM, "mm/pixel") |
| 32 | >>> | HAS PROPERTIES | NUM | EV (111066, DCM, "Vertical Pixel Spacing") | 1 | M | | UNITS = EV (mm/{pixel}, UCUM, "mm/pixel") |
| 33 | >> | CONTAINS | COMPOSITE | EV (112361, DCM, "Patient Data Used During Planning") | 1-n | U | | References SOP Instances except Images |
| 34 | >>> | HAS PROPERTIES | UIDREF | EV (112356, DCM, "User Selected Fiducial") | 1-n | MC | IFF row 33 references a Fiducial SOP Instance | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|------|-----------------|-----------|---|-----|----------|---|---|
| 35 | >>>> | HAS CONCEPT MOD | TEXT | EV (112369, DCM, "Fiducial Intent") | 1 | U | | |
| 36 | > | CONTAINS | CONTAINER | EV (112367, DCM, "Planning Information for Intraoperative Usage") | 1 | U | | |
| 37 | >> | CONTAINS | TEXT | EV (121173, DCM, "Physician Note") | 1-n | U | | |
| 38 | >> | CONTAINS | COMPOSITE | EV (112359, DCM, "Supporting Information") | 1 | U | | SOP Class UID shall be Encapsulated PDF Storage |
| 39 | >> | CONTAINS | COMPOSITE | EV (112372, DCM, "Derived Planning Images") | 1-n | U | | |
| 40 | >> | CONTAINS | COMPOSITE | EV (112353, DCM, "Spatial Registration") | 1-n | U | | References Spatial Registration SOP Instances and Deformable Spatial Registration SOP Instances |
| 41 | >>> | HAS PROPERTIES | UIDREF | EV (112227, DCM, "Frame of Reference UID") | 1-n | U | | |
| 42 | >> | CONTAINS | COMPOSITE | EV (112373, DCM, "Derived Planning Data") | 1-n | U | | References SOP Instances except Images and Spatial Registrations |
| 43 | >>> | HAS PROPERTIES | UIDREF | EV (112357, DCM, "Derived Fiducial") | 1-n | MC | IFF row 42 references a Fiducial SOP Instance | |
| 44 | >>>> | HAS CONCEPT MOD | TEXT | EV (112369, DCM, "Fiducial Intent") | 1 | U | | |
| 45 | >> | CONTAINS | COMPOSITE | EV (112364, DCM, "Related Patient Data Not Used During Planning") | 1-n | U | | |

Content Item Descriptions

| | |
|--------|--|
| Row 7 | If an Implant Assembly Template was used for the planning, it should be referenced here. |
| Row 9 | ID given to this Implant Component. Used to reference this specific Component within the Implantation Plan. |
| Row 10 | See description of Component Type Code Sequence (0076,0034) Attribute in Section C.29.2.1 "Implant Assembly Template Module" in PS3.3 |
| Row 11 | Reference to the Template that describes that component. May be the same Implant Template as referenced in row 13. The target of the reference may not be needed or available during implantation. e.g., if the plan is opened in another hospital where those implant templates are not used. |
| Row 12 | <p>This Frame of Reference is the Frame of Reference of the Implant Component (Frame of Reference UID (0020,0052) Attribute in the "Generic Implant Template Description Module" in PS3.3).</p> <p>This may help to find the right registration information (row 43).</p> |

| | |
|-------------|---|
| Row 13 | References the Original Template that was the basis for the Derived Template. May be the same Implant Template as referenced in row 11. The target of the reference may not be needed or available during implantation, e.g., if the plan is opened in another hospital where those implant templates are not used. |
| Row 14 | If there is no Component Connection between sets of Implant Components, one Assembly must be used for each set. |
| Row 17 | The ID of a planned Component that is defined in this document and that is part of this Relation. |
| Row 18 | See description of Mating Feature Set ID (0068,63C0) Attribute in the “Generic Implant Template Mating Features Module” in PS3.3 |
| Row 19 | See description of Mating Feature ID (0068,63F0) Attribute in the “Generic Implant Template Mating Features Module” in PS3.3 |
| Row 21 | See description of Degree of Freedom ID (0068,6410) Attribute in the “Generic Implant Template Mating Features Module” in PS3.3 |
| Row 22 - 27 | Defines the range or exact value that was selected or calculated by the planning application. |
| Row 31 | Defines the calibrated Horizontal Pixel Spacing that was used by the planning application, which may be different from the spacing encoded in the referenced Image SOP Instance. |
| Row 32 | Defines the calibrated Vertical Pixel Spacing that was used by the planning application, which may be different from the spacing encoded in the referenced Image SOP Instance. |
| Row 33 | Any patient data other than Image IEs used for the planning, e.g., Surface Segmentations. |
| Row 34 | Fiducials selected by the user for registration of implant components referenced in the parent Content Item. |
| Row 35 | User comment about the Fiducial. This may be the reason it was selected, the intended use, the anatomical or non-anatomical structure that the Fiducial represents, or any other intent. |
| Row 38 | All kinds of information in PDF form that are created by a planning application may be referenced here, e.g., drawings. |
| Row 39 | All kinds of images that are created by a planning application should be referenced here, e.g., images that show patient images overlaid with contour information of the Implant Component, or images that show how several implant components may be composed, or merged patient images. |
| Row 40 | References registration objects that contain registration data that is relevant for this Implantation Plan, e.g., registration of Implant Components. |
| Rows 5, 6 | Identifies one or more items within the sequence of referenced Frames of Reference (Registration Sequence (0070,0308) in the Spatial Registration Module or Deformable Registration Sequence (0064,0002) in the “Deformable Spatial Registration Module” in PS3.3) that are relevant for this Implantation Plan. See Figure A-13. |
| Row 42 | Any patient data created during the planning process that is not referenced in row 39 and 40, e.g., Surface Segmentation Instances created by the planning application. |
| Row 43 | These Fiducials are derived from the Fiducials identified in Row 34. |
| Row 45 | References to any relevant patient data containing IOD instances that were not used in planning or derived from it but belong to the patient model. Might be reports, images, surface segmentations, or other. |

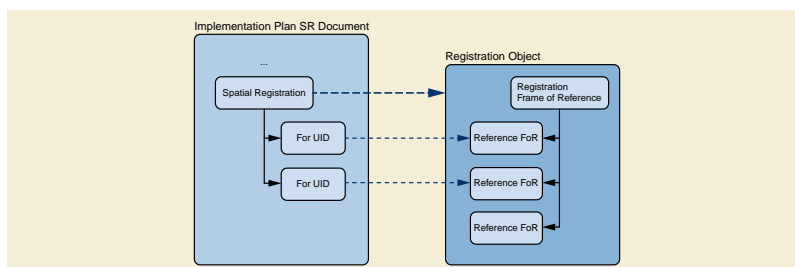


Figure A-13. References to Registration Objects

TID 7001 Related Implantation Reports

This general Template provides a means to reference related Implantation Plan SR Document instances that are not previous Reports. Other Implantations that are planned to be done during the same intervention should be referenced here.

Type: Extensible
Order: Significant
Root: No

Table TID 7001. Related Implantation Reports

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (112365, DCM, "Related Implantation Reports") | 1 | M | | |
| 2 | > | CONTAINS | COMPOSITE | | 1-n | M | | |

Acquisition Context SR IOD Templates

The Templates that comprise the Acquisition Context SR are interconnected as follows:

- TID 8101 "Preclinical Small Animal Image Acquisition Context"
 - TID 1204 "Language of Content Item and Descendants"
 - TID 1001 "Observation Context"
 - TID 8110 "Biosafety Conditions"
 - TID 8121 "Animal Housing"
 - TID 8122 "Animal Feeding"
 - TID 8140 "Heating Conditions"
 - TID 8150 "Circadian Effects"
 - TID 8170 "Physiological Monitoring Performed During Procedure"
 - TID 8130 "Anesthesia"
 - TID 8131 "Medications and Mixture Medications"
 - TID 9002 "Medication, Substance, Environmental Exposure"
 - TID 8182 "Exogenous Substance Administration"

TID 8101 Preclinical Small Animal Image Acquisition Context

This root template encodes a description of the conditions present during and related to data acquisition for a single imaging procedure.

Note

1. It is not expected that a single instance be used to describe the entire life of an animal, unless it is sacrificed after a single procedure. Rather, separate instances will be used for separate procedures, though there may be some duplication of common information, such as about the home cage environment.
2. It is expected that an SR instance encoded using this template will be contained in the same Study as other instances created during the procedure, e.g., with a common Study Instance UID. If this is not practical, e.g., due to recording on

a separate device without use of a shared Modality Worklist, then commonality of other Study level attributes may be necessary to link procedures (and possibly coerce the Study Instance UID to a common value).

Type: Extensible

Order: Non-Significant

Root: Yes

Table TID 8101. Preclinical Small Animal Image Acquisition Context

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (127001, DCM, "Preclinical Small Animal Imaging Acquisition Context") | 1 | M | | Root node |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1001 "Observation Context" | 1 | M | | |
| 5 | > | CONTAINS | INCLUDE | DTID 8110 "Biosafety Conditions" | 1 | U | | |
| 6 | > | CONTAINS | CONTAINER | EV (127005, DCM, "Animal handling during specified phase") | 1-n | U | | |
| 7 | >> | HAS CONCEPT MOD | CODE | EV (127006, DCM, "Phase of animal handling") | 1 | M | | DCID 634 "Phase of Animal Handling" |
| 8 | >> | CONTAINS | DATETIME | EV (111526, DCM, "DateTime Started") | 1 | U | | |
| 9 | >> | CONTAINS | DATETIME | EV (111527, DCM, "DateTime Ended") | 1 | U | | |
| 10 | >> | CONTAINS | INCLUDE | DTID 8121 "Animal Housing" | 1 | U | | |
| 11 | >> | CONTAINS | INCLUDE | DTID 8122 "Animal Feeding" | 1-n | U | | |
| 12 | >> | CONTAINS | INCLUDE | DTID 8140 "Heating Conditions" | 1 | U | | |
| 13 | >> | CONTAINS | INCLUDE | DTID 8150 "Circadian Effects" | 1 | U | | |
| 14 | >> | CONTAINS | INCLUDE | DTID 8170 "Physiological Monitoring Performed During Procedure" | 1 | U | | |
| 15 | > | CONTAINS | INCLUDE | DTID 8130 "Anesthesia" | 1 | U | | |
| 16 | > | CONTAINS | INCLUDE | DTID 9002 "Medication, Substance, Environmental Exposure" | 1 | U | | \$ContainerConcept = EV (10160-0, LN, "History Of Medication Use") \$CodeConcept = EV (111516, DCM, "Medication Type") \$Route = DCID 11 "Route of Administration" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|----|----------|-----------|---|
| 17 | > | CONTAINS | INCLUDE | DTID 8182 "Exogenous Substance Administration" | 1 | U | | \$ContainerConcept = EV (127400, DCM, "Exogenous substance") \$CodeConcept = DCID 637 "Exogenous Substance Types" \$CodeValue = DCID 638 "Exogenous Substance" \$Route = DCID 11 "Route of Administration" \$Site = DCID 644 \$TissueOfOrigin = DCID 645 \$TaxonomicRankOfOrigin = DCID DCID 7454 "Animal Taxonomic Rank Values" 7454 "Animal Taxonomic Rank Values" |

Content Item Descriptions

| | |
|-------------------|--|
| Row 3 | <p>A single pre-coordinated code describing the general type of imaging procedure can be described using TID 1005 Row 9 Procedure Code (included in TID 1001). For small animal (as opposed to human) imaging, this will likely describe a whole body acquisition in a modality-specific manner and the use of contrast and/or radiopharmaceutical. E.g., whole body FDG PET, or whole body DCE-MRI.</p> <p>May be redundant with (or default to) the value present in the top level data set in Procedure Code Sequence (0008,1032) of the General Study Module.</p> <p>Species and strain identification is not described in TID 1001; rather it is encoded in DICOM Attributes in the top level data set.</p> |
| Row 5 | The biosafety conditions are expected to be consistent across all phases of handling, so are not described separately per-phase. |
| Rows 8-9 | The period of time during which the phase is defined, i.e., during which the animal was managed in the specified conditions. This may be more important for interpretation for some phases (e.g., transport) than others (e.g., at rest in the home cage), and hence is optional. |
| Rows 10-14 | The outline of subordinate templates follows the pattern of categories of Animal Housing, Care, and Physiologic Monitoring information described in [Stout et al 2013]. |
| Row 11 | Animal feeding |
| Row 11 | Animal feeding is 1-n to allow encoding of dietary supplements and treats in addition to the regular diet. is 1-n to allow encoding of dietary supplements and treats in addition to the regular diet. |
| Row 15 | A single anesthesia event is normally assumed for a single procedure, though the template included can include multiple pre-, intra- and post-procedure descriptions. |

| | |
|--------|--|
| Row 16 | Used to describe pharmaceuticals administered that are not described elsewhere, in particular, those that are not described as anesthesia medications, and those that are not described in the images (e.g., contrast, radiopharmaceuticals). This includes therapy (such as chemotherapy, immunotherapy) and similar interventions that may be the subject of the research. The value set of \$CodeValue is not defined, given the vast range of possible codes and coding schemes for drugs or medicaments that might be used. Nor are value sets for \$Classification or \$Site defined. |
| Row 17 | Used to describe non-pharmaceutical exogenous substances administered, such as cells or other tumor graft, fibrils, viruses, cytokines and toxins that describe the "model" upon which the research is being performed, as distinct from the "therapeutic intervention" (Row 16) that may be the purpose of the research. The Classification parameter is not constrained by any value set. |

TID 8110 Biosafety Conditions

This template encodes a description of the biosafety conditions applicable to research small animals.

Type: Extensible

Order: Non-Significant

Table TID 8110. Biosafety Conditions

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|--------------------------------------|
| 1 | | | CONTAINER | EV (127010, DCM, "Biosafety conditions") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (F-0061F, SRT, "Biosafety level") | 1 | U | | DCID 601 "Biosafety Levels" |
| 2 | > | CONTAINS | CODE | EV (127011, DCM, "Reason for biosafety controls") | 1 | U | | DCID 602 "Biosafety Control Reasons" |
| 4 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

Content Item Descriptions

| | |
|-------|---|
| Row 4 | A brief description of any pertinent or unusual biosafety requirements. |
|-------|---|

TID 8121 Animal Housing

This template encodes a description of housing of animals, e.g., in home cages, holders for imaging, etc., over an interval during which environmental and handling conditions are relatively homogenous.

Note

- Only "static" parameters of the design and setup are recorded, and "nominal" values for environmental conditions such as humidity and temperature, but not "dynamic" parameters that might vary during one housing interval, and potentially be monitored, such as oxygen or ammonia levels, temperature, humidity, urine or fecal corticosterone levels, etc.
- Values for product names and codes are expected to be accurate at the time the information is recorded, recognizing that products may evolve over time.

Type: Extensible

Order: Non-Significant

Table TID 8121. Animal Housing

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (127120, DCM, "Animal housing") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (127121, DCM, "Animal room type") | 1 | U | | DCID 603 "Animal Room Types" |
| 2b | > | CONTAINS | TEXT | EV (127122, DCM, "Animal room identifier") | 1 | U | | |
| 3 | > | CONTAINS | TEXT | EV (127125, DCM, "Housing manufacturer") | 1 | U | | |
| 4 | > | CONTAINS | TEXT | EV (127126, DCM, "Housing rack product name") | 1 | U | | |
| 5 | > | CONTAINS | TEXT | EV (127127, DCM, "Housing rack product code") | 1 | U | | |
| 6 | > | CONTAINS | TEXT | EV (127128, DCM, "Housing unit product name") | 1 | U | | |
| 7 | > | CONTAINS | TEXT | EV (127129, DCM, "Housing unit product code") | 1 | U | | |
| 8 | > | CONTAINS | TEXT | EV (127130, DCM, "Housing unit lid product name") | 1 | U | | |
| 9 | > | CONTAINS | TEXT | EV (127131, DCM, "Housing unit lid product code") | 1 | U | | |
| 10 | > | CONTAINS | NUM | EV (127140, DCM, "Number of racks per room") | 1 | U | | UNITS = EV ({racks}, UCUM, "racks") |
| 11 | > | CONTAINS | NUM | EV (127141, DCM, "Number of housing units per rack") | 1 | U | | UNITS = EV ({housing units}, UCUM, "housing units") or EV ({cages}, UCUM, "cages") |
| 12 | > | CONTAINS | TEXT | EV (127142, DCM, "Housing unit location in rack") | 1 | U | | |
| 13 | > | CONTAINS | NUM | EV (127143, DCM, "Number of animals within same housing unit") | 1 | U | | UNITS = EV ({animals}, UCUM, "animals") |
| 14 | > | CONTAINS | CODE | EV (127144, DCM, "Sex of animals within same housing unit") | 1 | U | | DCID 7457 "Sex - Male Female or Both" |
| 15 | > | CONTAINS | CODE | EV (127145, DCM, "Sex of handler") | 1 | U | | DCID 7457 "Sex - Male Female or Both" |
| 16 | > | CONTAINS | NUM | EV (127150, DCM, "Total duration in housing") | 1 | U | | UNITS = EV (d, UCUM, "days") |
| 17 | > | CONTAINS | NUM | EV (127151, DCM, "Housing change interval") | 1 | U | | UNITS = EV (d, UCUM, "days") |
| 18 | > | CONTAINS | NUM | EV (127152, DCM, "Manual handling interval") | 1 | U | | UNITS = EV (h, UCUM, "hours") |
| 19 | > | CONTAINS | TEXT | EV (127153, DCM, "Housing unit movement") | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|-----|----|-----------------|------|---|----|----------|-----------|------------------------------------|
| 20 | > | CONTAINS | NUM | EV (127160, DCM, "Housing unit width") | 1 | U | | UNITS = EV (cm, UCUM, "cm") |
| 21 | > | CONTAINS | NUM | EV (127161, DCM, "Housing unit height") | 1 | U | | UNITS = EV (cm, UCUM, "cm") |
| 22 | > | CONTAINS | NUM | EV (127162, DCM, "Housing unit length") | 1 | U | | UNITS = EV (cm, UCUM, "cm") |
| 23 | > | CONTAINS | CODE | EV (127170, DCM, "Housing individually ventilated") | 1 | U | | DCID 231 "Yes-No Only" |
| 24 | > | CONTAINS | NUM | EV (127172, DCM, "Air changes") | 1 | U | | UNITS = EV (/h, UCUM, "/hour") |
| 25 | > | CONTAINS | NUM | EV (C90380, NCIt, "Environmental temperature") | 1 | U | | UNITS = EV (Cel, UCUM, "C") |
| 26 | > | CONTAINS | NUM | EV (C90395, NCIt, "Housing humidity") | 1 | U | | UNITS = EV (% , UCUM, "%") |
| 27 | > | CONTAINS | CODE | EV (127175, DCM, "Housing unit reuse") | 1 | U | | DCID 604 "Device Reuse" |
| 28 | > | CONTAINS | CODE | EV (C90366, NCIt, "Bedding material") | 1 | U | | DCID 605 "Animal Bedding Material" |
| 29 | > | CONTAINS | TEXT | EV (C90366, NCIt, "Bedding material") | 1 | U | | |
| 30 | > | CONTAINS | TEXT | EV (127180, DCM, "Bedding manufacturer") | 1 | U | | |
| 31 | > | CONTAINS | TEXT | EV (127181, DCM, "Bedding product name") | 1 | U | | |
| 32 | > | CONTAINS | TEXT | EV (127182, DCM, "Bedding product code") | 1 | U | | |
| 33 | > | CONTAINS | NUM | EV (127183, DCM, "Bedding volume") | 1 | U | | UNITS = EV (ml, UCUM, "ml") |
| 34 | > | CONTAINS | NUM | EV (127184, DCM, "Bedding mass") | 1 | U | | UNITS = EV (g, UCUM, "g") |
| 34b | > | CONTAINS | NUM | EV (127185, DCM, "Bedding depth") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 35 | > | CONTAINS | NUM | EV (C90365, NCIt, "Bedding change") | 1 | U | | UNITS = EV (d, UCUM, "days") |
| 36 | > | CONTAINS | CODE | EV (127192, DCM, "Enrichment material present") | 1 | U | | DCID 241 "Present-Absent Only" |
| 36b | > | CONTAINS | TEXT | EV (127191, DCM, "Enrichment manufacturer") | 1 | U | | |
| 37 | > | CONTAINS | TEXT | EV (127190, DCM, "Enrichment material") | 1 | U | | |
| 38 | > | CONTAINS | CODE | EV (127193, DCM, "Exerciser device present") | 1 | U | | DCID 241 "Present-Absent Only" |
| 39 | > | CONTAINS | TEXT | EV (A-17200, SRT, "Exerciser device") | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|--|----|----------|-----------|---------------------------------|
| 40 | > | CONTAINS | CODE | EV (127195, DCM, "Shelter type") | 1 | U | | DCID 606 "Animal Shelter Types" |
| 41 | > | CONTAINS | TEXT | EV (127196, DCM, "Shelter manufacturer") | 1 | U | | |
| 42 | > | CONTAINS | TEXT | EV (127197, DCM, "Shelter product name") | 1 | U | | |
| 43 | > | CONTAINS | TEXT | EV (127198, DCM, "Shelter product code") | 1 | U | | |
| 44 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

Content Item Descriptions

| | |
|--------------|--|
| Row 2 and 2b | The type and identifier of the entire room in which, for example, one or more racks of housing units is located, not the housing unit itself. |
| Row 3 | The manufacturer is expected to be the same for all housing unit components, rack, bottom and lid. |
| Row 12 | The position in the rack is encoded as text since it may be an "identifier" or a description. It is not a set of numeric (e.g., row, column) or coded (e.g., top, bottom or middle) values, since there are too many possible arrangements. |
| Row 13 | The number of animals usually applies to a single housing unit, but may also be used to describe the number of animals imaged simultaneously in a multi-animal imaging carrier or support device ("chamber", "holder", etc.). |
| Rows 20-22 | These may be internal or external dimensions, and are intended to provide an approximation of the living space and shape available. |
| Rows 25-26 | Description of measured or monitored or nominal values of temperature and humidity. The means of maintaining these conditions, if relevant, is described elsewhere (e.g., in the case of peri-procedural temperature control, in TID 8140 "Heating Conditions"). |
| Rows 28-29 | The bedding material may be described as a code or text, or both. The codes do not distinguish between methods of sterilization of the bedding material (e.g., irradiation, autoclaving or other heat treatment), since that is not a relevant factor for image interpretation. The definition of the NCIt concept is "that which comprises the place where a subject sleeps". |
| Row 35 | The definition of the NCIt concept is "a replacement of the existing materials that make up the sleeping area of a subject", and is used here to specify the interval between bedding changes. |
| Row 36-37 | The presence or absence of enrichment material is coded, but the type is not, and may be described as text, e.g., "facial tissue", "cotton (nesting material)". |
| Row 38-39 | The presence or absence of an exercise device is coded, but the type is not, and may be described as text. |

TID 8122 Animal Feeding

This template encodes a description of feeding and watering of animals, over an interval during which conditions are relatively homogeneous.

Note

1. No specific time interval during which the diet is applicable is described.
2. Values for product names and codes are expected to be accurate at the time the information is recorded, recognizing that products may evolve over time.

Type: Extensible

Order: Non-Significant

Table TID 8122. Animal Feeding

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---------------------------------------|----|----------|-----------|-----------------------------------|
| 1 | | | CONTAINER | EV (PA-00600, SRT, "Feeding") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (C-F5000, SRT, "Animal feed") | 1 | U | | DCID 607 "Animal Feed Types" |
| 3 | > | CONTAINS | CODE | EV (127205, DCM, "Feed source") | 1 | U | | DCID 608 "Animal Feed Sources" |
| 4 | > | CONTAINS | TEXT | EV (127200, DCM, "Feed manufacturer") | 1 | U | | |
| 5 | > | CONTAINS | TEXT | EV (127201, DCM, "Feed product name") | 1 | U | | |
| 6 | > | CONTAINS | TEXT | EV (127202, DCM, "Feed product code") | 1 | U | | |
| 7 | > | CONTAINS | CODE | EV (C0015746, UMLS, "Feeding method") | 1 | U | | DCID 609 "Animal Feeding Methods" |
| 8 | > | CONTAINS | CODE | EV (C-10120, SRT, "Water") | 1 | U | | DCID 610 "Water Types" |
| 9 | > | CONTAINS | CODE | EV (C90486, NCIt, "Water delivery") | 1 | U | | DCID 609 "Animal Feeding Methods" |
| 10 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

TID 8130 Anesthesia

This template encodes a description of the anesthesia applied during a procedure (e.g., imaging of research small animals).

Note

This template combines selected concepts from the [AQI Schema] elements, their complex types, and their children:

- AnesthesiaMethodSet (type AnesthesiaMethodSetType). See <http://www.aqihq.org/aqischdoc/AnesthesiaMethodSet.html> and <http://www.aqihq.org/aqischdoc/AnesthesiaMethodSetType.html>.
- AirwayManagementSet (type AirwayManagementSetType). See <http://www.aqihq.org/aqischdoc/AirwayManagementSet.html> and <http://www.aqihq.org/aqischdoc/AirwayManagementSetType.html>.
- MedicationsSet (type MedicationsSetType). See <http://www.aqihq.org/aqischdoc/MedicationsSet.html> and <http://www.aqihq.org/aqischdoc/MedicationsSetType.html>.

Type: Extensible

Order: Non-Significant

Table TID 8130. Anesthesia

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (P1-0512A, SRT, "Administration of anesthesia") | 1 | M | | |
| 2 | > | CONTAINS | CONTAINER | EV (127300, DCM, "Anesthesia Method Set") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|--|-----|----------|-----------|---|
| 3 | >> | CONTAINS | CONTAINER | EV (127301, DCM, "Anesthesia Method") | 1-n | M | | |
| 4 | >>> | CONTAINS | CODE | EV (127302, DCM, "Anesthesia Category") | 1 | M | | DCID 611 "Anesthesia Category Code Type for Small Animal Anesthesia" |
| 5 | >>> | CONTAINS | TEXT | EV (127303, DCM, "Anesthesia SubCategory") | 1 | U | | |
| 6 | >>> | CONTAINS | DATETIME | EV (DF-0068E, SRT, "Anesthesia Start Time") | 1 | U | | |
| 7 | >>> | CONTAINS | DATETIME | EV (DF-0070B, SRT, "Anesthesia Finish Time") | 1 | U | | |
| 8 | >>> | CONTAINS | CODE | EV (P1-C0012, SRT, "Anesthesia Induction") | 1 | U | | DCID 613 "Anesthesia Induction Code Type for Small Animal Anesthesia" |
| 9 | >>> | CONTAINS | CODE | EV (P1-C001A, SRT, "Anesthesia Maintenance") | 1 | U | | DCID 615 "Anesthesia Maintenance Code Type for Small Animal Anesthesia" |
| 10 | >>> | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |
| 11 | > | CONTAINS | CONTAINER | EV (127310, DCM, "Airway Management Set") | 1 | M | | |
| 12 | >> | CONTAINS | CONTAINER | EV (P0-0409B, SRT, "Airway Management") | 1-n | M | | |
| 13 | >>> | CONTAINS | CODE | EV (127312, DCM, "Airway Management Method") | 1 | M | | DCID 617 "Airway Management Method Code Type for Small Animal Anesthesia" |
| 14 | >>> | CONTAINS | CODE | EV (127313, DCM, "Airway Sub-Management Method") | 1 | M | | DCID 619 "Airway Management Sub-Method Code Type for Small Animal Anesthesia" |
| 15 | > | CONTAINS | CONTAINER | EV (127320, DCM, "Medications Set") | 1-n | M | | |
| 16 | >> | CONTAINS | CODE | EV (G-7292, SRT, "Procedure Phase") | 1 | M | | DCID 631 "Phase of Procedure Requiring Anesthesia" |
| 17 | >> | CONTAINS | INCLUDE | DTID 8131 "Medications and Mixture Medications" | 1-n | M | | |

Content Item Descriptions

| | |
|----------|---|
| Rows 1-3 | If this template is used, at least one description of anesthesia method is required. Note that the specific agents used are described separately, as intra-operative medications, per the [AQI Schema]. |
| Rows 6-7 | These correspond to AQI elements that are named "Time" rather than "DateTime", though their value is a DateTime; the DICOM naming convention is used here. |

| | |
|------------|---|
| Row 9 | Only inhalational methods of maintenance are included in this row. Absence of this row implies that the (non-inhalational) induction method is used for maintenance. |
| Row 10 | The comment corresponds to AQI element "Anesthesia Notes". |
| Rows 11-13 | At least one description of airway management is required. The airway management method also serves as the description of the method of inhalational anesthesia delivery, even if it does not involve "management" of the "airway" per se (e.g., delivery via nose cone). |
| Rows 15-17 | In the AQI model, a single AQI MedicationsSet is used in the AQI IntraOp element to describe intra-operative medications. This template allows a more general usage, with one or more Medications Set containers, each of which may be qualified by the phase of the procedure (pre-operative, intra-operative or post-operative). The purpose of the medication (e.g., general anesthetic) is described in the (111516, DCM, "Medication Type") of the included TID 8131 "Medications and Mixture Medications". |

TID 8131 Medications and Mixture Medications

This template encodes a description of medications (including but not limited to anesthetic agents) used during a procedure (e.g., anesthesia for imaging of research small animals).

Note

This template combines selected concepts from the [AQI Schema] elements, their complex types, and their children:

- Medication (type MedicationType). See <http://www.aqihq.org/aqischdoc/Medication.html> and <http://www.aqihq.org/aqischdoc/MedicationType.html>.
- MixtureMedications (type MixtureMedicationType). See <http://www.aqihq.org/aqischdoc/MixtureMedications.html> and <http://www.aqihq.org/aqischdoc/MixtureMedicationType.html>.

Type: Extensible

Order: Non-Significant

Table TID 8131. Medications and Mixture Medications

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (F-04460, SRT, "Medication given") | 1 | M | | |
| 2 | > | CONTAINS | DATETIME | EV (122081, DCM, "Drug start") | 1 | U | | |
| 3 | > | CONTAINS | DATETIME | EV (122082, DCM, "Drug end") | 1 | U | | |
| 4 | > | CONTAINS | CODE | EV (G-C340, SRT, "Route of administration") | 1 | M | | DCID 11 "Route of Administration" |
| 5 | > | CONTAINS | CONTAINER | EV (R-40826, SRT, "Mixture") | 1-n | M | | |
| 6 | >> | CONTAINS | CODE | EV (122083, DCM, "Drug administered") | 1 | MC | XOR Row 7 | DCID 623 "Medication for Small Animal Anesthesia" |
| 7 | >> | CONTAINS | TEXT | EV (122083, DCM, "Drug administered") | 1 | MC | XOR Row 6 | |
| 8 | >> | CONTAINS | CODE | EV (111516, DCM, "Medication Type") | 1 | M | | DCID 621 "Medication Type Code Type for Small Animal Anesthesia" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----|-----------------------------------|----|----------|-----------|--|
| 9 | >> | CONTAINS | NUM | EV (G-C0B7, SRT, "Dosage") | 1 | U | | UNITS = DCID DCID 82 "Units of Measurement" 82 "Units of Measurement" |
| 10 | >> | CONTAINS | NUM | EV (122093, DCM, "Concentration") | 1 | U | | UNITS = DCID DCID 82 "Units of Measurement" 82 "Units of Measurement" |

Content Item Descriptions

| | |
|-----------|---|
| Row 1 | AQI Medication type and element correspond to (F-04460, SRT, "Medication given") (situation). (See TID 3806 Cath Procedure). |
| Rows 2-3 | AQI DoseStart and DoseEnd elements correspond to (122081, DCM, "Drug start") and (122082, DCM, "Drug end") respectively. (See CID 3409 Administration of Drugs/Contrast). If the medication is delivered as a bolus, the end time is omitted. |
| Row 4 | AQI MedicationRoute corresponds to (G-C340, SRT, "Route of administration"). The existing CID 11 "Route of Administration" contains a relevant subset of concepts for the enumerated values of AQI MedicationRouteCodeType. |
| Row 5 | The AQI schema allows the Medication type not only to describe medications with a single component, but also to add MixtureMedications children, each of which is encoded following a similar pattern to the contents of Medication, though the start and end time and route of administration are shared. This had been modeled by allowing every medication to have one or more mixture children. For medications that are not a mixture, a single instance of this row defines the medication (even though the mixture container is still used). |
| Rows 6, 7 | AQI MedicationName and MixtureMedicationName elements correspond to (122083, DCM, "Drug administered"). (See TID 3806 Cath Procedure). The medication (e.g., anesthesia agent) can be described with a code or text, e.g., (F-61B0A, SRT, "Isoflurane") or "isoflurane". |
| Row 9 | Both AQI MedDose (or MixtureMedDose) and DoseUnits (or MixtureDoseUnits) elements are combined in one content item. Units are required to be encoded as UCUM but are not otherwise constrained. |
| Row 10 | Both AQI MedConcentration (or MixtureMedConcentration) and MedConcentrationUnit (or MixtureMedConcentrationUnit) elements are combined in one content item. Units are required to be encoded as UCUM but are not otherwise constrained. |

TID 8140 Heating Conditions

This template encodes a description of the heating conditions applied prior to, during or after data acquisition (e.g., during imaging of research small animals).

Type: Extensible

Order: Non-Significant

Table TID 8140. Heating Conditions

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (127040, DCM, "Heating conditions") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (G-7292, SRT, "Procedure Phase") | 1 | U | | DCID 631 "Phase of Procedure Requiring Anesthesia" |
| 3 | > | CONTAINS | CODE | EV (C0018851, UMLS, "Heating") | 1 | U | | DCID 635 "Heating Method" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|----|----------|-----------|---|
| 4 | > | CONTAINS | CODE | EV (127210, DCM, "Feedback temperature regulation") | 1 | U | | DCID 231 "Yes-No Only" |
| 5 | > | CONTAINS | CODE | EV (C50304, NCIt, "Temperature sensor device component") | 1 | U | | DCID 636 "Temperature Sensor Device Component Type for Small Animal Procedures" |
| 6 | > | CONTAINS | NUM | EV (F-021FF, SRT, "Equipment Temperature") | 1 | U | | UNITS = EV (Cel, UCUM, "C") |

Content Item Descriptions

| | |
|-------|--|
| Row 2 | Phase during which the conditions are applicable may be implicit in the context of invocation of this template (e.g., TID 8101 "Preclinical Small Animal Image Acquisition Context" Row 7), or explicitly specified. |
| Row 3 | The definition (from MESH) is "The application of heat to raise the temperature of the environment, ambient or local, or systems for accomplishing this effect". |
| Row 6 | This is the nominal temperature of the heating device (e.g., heating pad) and/or the set point of the feedback regulation device. |

TID 8150 Circadian Effects

This template encodes a description of the Circadian effects relevant during data acquisition (e.g., during imaging of research small animals).

Type: Extensible

Order: Non-Significant

Table TID 8150. Circadian Effects

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|-------------------------------|
| 1 | | | CONTAINER | EV (127050, DCM, "Circadian effects") | 1 | M | | |
| 2 | > | CONTAINS | NUM | EV (127214, DCM, "Total duration of light-dark cycle") | 1 | U | | UNITS = EV (h, UCUM, "hours") |
| 3 | > | CONTAINS | NUM | EV (C90419, NCIt, "Light cycle") | 1 | U | | UNITS = EV (% , UCUM, "%") |
| 4 | > | CONTAINS | TIME | EV (127215, DCM, "Lights on time of day") | 1-n | U | | |

Content Item Descriptions

| | |
|-------|--|
| Row 2 | Usually 24 hours. |
| Row 3 | The definition is "the amount of ambient light/darkness to which a subject is exposed in a period of time"; also mapped to CDISC "the period of light that a subject is exposed to in a period of time, usually expressed as the amount of time in a 24 hour cycle". |
| Row 4 | Can only be encoded if the light-dark cycles are aligned to a 24 hour clock. May be multiple if either multiple cycles occur during a 24 hour period, or if the cycle is longer than a 24 hour period and a multiple of 24 hours in duration. |

TID 8170 Physiological Monitoring Performed During Procedure

This template encodes a description of the physiological monitoring performed during a period of time during or related to a data acquisition procedure (e.g., imaging of research small animals).

Type: Extensible

Order: Non-Significant

Table TID 8170. Physiological Monitoring Performed During Procedure

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|------------------------|
| 1 | | | CONTAINER | EV (P0-005ED, SRT, "Physiological monitoring") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (P2-31209, SRT, "Electrocardiographic monitoring") | 1 | U | | DCID 231 "Yes-No Only" |
| 3 | > | CONTAINS | CODE | EV (P2-22010, SRT, "Monitoring of respiration") | 1 | U | | DCID 231 "Yes-No Only" |

Content Item Descriptions

| | |
|-------|--|
| Row 2 | There is no non-surgical procedure non-specific variant of (P2-34122, SRT, "Monitoring of electrocardiogram at surgery"). (P2-31209, SRT, "Continuous electrocardiogram monitoring") is intended for non-procedural (e.g., 24-hour) monitoring. So a more generic code for any kind of monitoring is used. |
|-------|--|

TID 8182 Exogenous Substance Administration

This template provides detailed information on a research subject's exposure to exogenous substances. It is a specialization of the more general template TID 9002 "Medication, Substance, Environmental Exposure".

Table TID 8182. Parameters

| Parameter Name | Parameter Usage |
|-------------------------|---|
| \$ContainerConcept | Coded term for the concept name of the CONTAINER, identifying it as an exogenous substance. |
| \$CodeConcept | Coded term for the concept name of the CODE, identifying the type of substance. |
| \$CodeValue | Coded term or Context Group for value of the substance. |
| \$Classification | Coded term or Context Group for classification of the substance. |
| \$Route | Coded term or Context Group for the route of administration of the substance. |
| \$Site | Coded term or Context Group for the anatomical site of administration of the substance |
| \$TissueOfOrigin | Coded term or Context Group for the tissue of origin of the substance |
| \$TaxonomicRankOfOrigin | Coded term or Context Group for the taxonomic rank (e.g., species) of origin of the substance |

Type: Extensible

Order: Significant

Table TID 8182. Exogenous Substance Administration

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--------------------|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | \$ContainerConcept | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|------|-----------------|-----------|--|-----|----------|--------------------------|--|
| 2 | > | CONTAINS | CODE | \$CodeConcept | 1-n | M | | \$CodeValue |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (G-C032, SRT, "Classification") | 1 | U | | \$Classification |
| 4 | >> | HAS OBS CONTEXT | CODE | EV (111534, DCM, "Role of person reporting") | 1 | U | | DCID DCID 7450 "Person Roles" 7450 "Person Roles"/> |
| 5 | >> | HAS PROPERTIES | NUM | EV (111524, DCM, "Age Started") | 1 | U | | UNITS = DCID DCID 7456 "Units of Measure for Age" 7456 "Units of Measure for Age" |
| 6 | >> | HAS PROPERTIES | NUM | EV (111525, DCM, "Age Ended") | 1 | U | | UNITS = DCID DCID 7456 "Units of Measure for Age" 7456 "Units of Measure for Age" |
| 7 | >> | HAS PROPERTIES | DATETIME | EV (111526, DCM, "DateTime Started") | 1 | U | | |
| 8 | >> | HAS PROPERTIES | DATETIME | EV (111527, DCM, "DateTime Ended") | 1 | U | | |
| 9 | >> | HAS PROPERTIES | NUM | EV (G-7290, SRT, "Duration") | 1 | U | | UNITS = DCID 6046 "Units of Follow-up Interval" |
| 10 | >> | HAS PROPERTIES | CODE | EV (111528, DCM, "Ongoing") | 1 | U | | DCID 230 "Yes-No" |
| 11 | >> | HAS PROPERTIES | TEXT | EV (111529, DCM, "Brand Name") | 1 | U | | |
| 12 | >> | HAS PROPERTIES | NUM | DCID 6092 "Quantitative Concepts for Usage, Exposure" | 1 | U | | The unit of measure shall be quantity per unit of time |
| 13 | >> | HAS PROPERTIES | CODE | DCID 6093 "Qualitative Concepts for Usage, Exposure Amount" | 1 | U | | DCID 6090 "Relative Usage, Exposure Amount" |
| 14 | >> | HAS PROPERTIES | CODE | DCID 6094 "Qualitative Concepts for Usage, Exposure Frequency" | 1 | U | | DCID 6091 "Relative Frequency of Event Values" |
| 15 | >> | HAS PROPERTIES | CODE | EV (G-C340, SRT, "Route of administration") | 1 | U | | \$Route |
| 16 | >>> | HAS PROPERTIES | CODE | EV (G-C581, SRT, "Site of") | 1 | U | | \$Site |
| 17 | >>>> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | MC | IF Row 16 has laterality | DCID 244 "Laterality" |
| 18 | >>> | HAS PROPERTIES | SCCOORD3D | EV (127450, DCM, "Stereotactic coordinates") | 1 | U | | |
| 19 | >>> | HAS PROPERTIES | CODE | EV (127451, DCM, "Position reference indicator") | 1 | U | | DCID 647 "Position Reference Indicator for Frame of Reference" |
| 20 | >> | HAS PROPERTIES | CODE | EV (127401, DCM, "Tissue of origin") | 1 | U | | \$TissueOfOrigin |
| 21 | >> | HAS PROPERTIES | CODE | EV (127402, DCM, "Taxonomic rank of origin") | 1 | U | | \$TaxonomicRankOfOrigin |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|------|---|-----|----------|-----------|----------------------|
| 22 | >> | HAS PROPERTIES | CODE | EV (127411, DCM, "Strain") | 1 | U | | |
| 23 | >> | HAS PROPERTIES | TEXT | EV (127412, DCM, "Strain description") | 1 | U | | |
| 24 | >>> | HAS CONCEPT MOD | TEXT | EV (127413, DCM, "Nomenclature") | 1 | U | | |
| 25 | >> | HAS PROPERTIES | TEXT | EV (127415, DCM, "Genetic modifications description") | 1-n | U | | |
| 26 | >>> | HAS CONCEPT MOD | TEXT | EV (127413, DCM, "Nomenclature") | 1 | U | | |
| 27 | >>> | HAS PROPERTIES | CODE | EV (127414, DCM, "Genetic modifications") | 1 | U | | |

Content Item Descriptions

| | |
|------------------------------|---|
| Row-3 Row 3 | Classification is inherited from the more general template TID 9002 "Medication, Substance, Environmental Exposure", and may be supplied as a parameter, but is entirely generic and is not used as an alternative to the more specific information provided in other rows, for example, Rows 19 and 20, tissue and taxonomic rank of origin. |
| Row-11 Row 11 | Brand name Brand name may be used for any type of descriptor or identifier. E.g., a particular cell line might have a designated name, such as "MDA-MB-468", which designates a particular human breast cancer cell line. may be used for any type of descriptor or identifier. E.g., a particular cell line might have a designated name, such as "MDA-MB-468", which designates a particular human breast cancer cell line. |
| Rows-22 Rows 22-27 -27 | These rows describe the strain and genetic modifications of the source of the graft using content items that correspond to the Attributes described in Section C.7.1.1.1.4 "Patient Strain and Genetic Modifications" in PS3.3. The strain and genetic characteristics of the animal into which the exogenous substance is grafted are described in the Patient Module; see Section C.7.1.1.1.4 "Patient Strain and Genetic Modifications" in PS3.3. |

Relevant Patient Information Templates

TID 9000 Relevant Patient Information for Breast Imaging

This Template collects a patient's relevant information as it relates to breast imaging. This Template, together with its subordinate Templates, describes the history of a patient's reproductive system, hormone medications, past procedures, risk factors, and indicated problems as they relate to breast health.

Type: Extensible
Order: Significant
Root: No

Table TID 9000. Relevant Patient Information for Breast Imaging

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (111511, DCM, "Relevant Patient Information for Breast Imaging") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|---|----|----------|-----------|--|
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | CONTAINS | INCLUDE | DTID 3114 "Patient Assessment" | 1 | U | | |
| 4 | > | CONTAINS | INCLUDE | DTID 9001 "Gynecological History" | 1 | U | | |
| 5 | > | CONTAINS | INCLUDE | DTID 9002 "Medication, Substance, Environmental Exposure" | 1 | U | | \$ContainerConcept = EV (10160-0, LN, "History Of Medication Use") \$CodeConcept = EV (111516, DCM, "Medication Type") \$CodeValue = DCID 6080 "Gynecological Hormones" |
| 6 | > | CONTAINS | INCLUDE | DTID 9003 "Previous Procedure" | 1 | U | | \$ProcedureList = DCID 6083 "Procedures for Breast" \$ProcedureModifier = DCID 6058 "Procedure Modifiers for Breast" \$NumConceptName = DCID 6095 "Numeric Properties of Procedures" \$LateralityValue = DCID 6022 "Side" \$ProcedureResult = DCID 6063 "Interventional Procedure Results" \$ComplicationValue = DCID 6062 "Interventional Procedure Complications" |
| 7 | > | CONTAINS | INCLUDE | DTID 9004 "Indicated Problem" | 1 | U | | \$ProblemList = DCID 6055 "Breast Clinical Finding or Indicated Problem" \$LateralityValue = DCID 6022 "Side" \$LocationValue = DCID 6018 "Clockface Location or Region", DCID 6020 "Quadrant Location" |
| 8 | > | CONTAINS | INCLUDE | DTID 9005 "Risk Factor" | 1 | U | | \$RiskList = DCID 6081 "Breast Cancer Risk Factors" \$FamilyList = DCID 7451 "Family Member" |

TID 9001 Gynecological History

This general Template collects the details of a patient's reproductive system history, such as number of births, and gynecological surgery history.

Type: Extensible
Order: Significant
Root: No

Table TID 9001. Gynecological History

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|----|----------|-----------|---|
| 1 | | | CONTAINER | EV (R-20767, SRT, "Gynecological History") | 1 | M | | |
| 2 | > | HAS OBS CONTEXT | CODE | EV (111534, DCM, "Role of person reporting") | 1 | U | | DCID 7450 "Person Roles" |
| 3 | > | CONTAINS | DATE | EV (11955-2, LN, "Date of last menstrual period") | 1 | U | | |
| 4 | > | CONTAINS | NUM | EV (111518, DCM, "Age when first menstrual period occurred") | 1 | U | | UNITS = EV (a, UCUM, "Year") |
| 5 | > | CONTAINS | NUM | EV (111519, DCM, "Age at First Full Term Pregnancy") | 1 | U | | UNITS = EV (a, UCUM, "Year") |
| 6 | > | CONTAINS | NUM | EV (11977-6, LN, "Para") | 1 | U | | UNITS = EV (1, UCUM, "no units") |
| 7 | > | CONTAINS | NUM | EV (11639-2, LN, "Term") | 1 | U | | UNITS = EV (1, UCUM, "no units") |
| 8 | > | CONTAINS | NUM | EV (11637-6, LN, "Preterm") | 1 | U | | UNITS = EV (1, UCUM, "no units") |
| 9 | > | CONTAINS | NUM | EV (11636-8, LN, "Live Births") | 1 | U | | UNITS = EV (1, UCUM, "no units") |
| 10 | > | CONTAINS | NUM | EV (111593, DCM, "LBW or IUGR") | 1 | U | | UNITS = EV (1, UCUM, "no units") |
| 11 | > | CONTAINS | NUM | EV (11996-6, LN, "Gravida") | 1 | U | | UNITS = EV (1, UCUM, "no units") |
| 12 | > | CONTAINS | NUM | EV (11612-9, LN, "Aborta") | 1 | U | | UNITS = EV (1, UCUM, "no units") |
| 13 | > | CONTAINS | NUM | EV (33065-4, LN, "Ectopic Pregnancies") | 1 | U | | UNITS = EV (1, UCUM, "no units") |
| 14 | > | CONTAINS | NUM | EV (111520, DCM, "Age at Menopause") | 1 | U | | UNITS = EV (a, UCUM, "Year") |
| 15 | > | CONTAINS | NUM | EV (111521, DCM, "Age when hysterectomy performed") | 1 | U | | UNITS = EV (a, UCUM, "Year") |
| 16 | >> | HAS CONCEPT MOD | CODE | EV (R-404ED, SRT, "Extent") | 1 | U | | EV (R-404F1, SRT, "Complete") EV (R-404FE, SRT, "Partial") |
| 17 | > | CONTAINS | NUM | EV (111522, DCM, "Age when left ovary removed") | 1 | U | | UNITS = EV (a, UCUM, "Year") |
| 18 | > | CONTAINS | NUM | EV (111523, DCM, "Age when right ovary removed") | 1 | U | | UNITS = EV (a, UCUM, "Year") |
| 19 | > | CONTAINS | CODE | EV (111543, DCM, "Breast feeding history") | 1 | U | | DCID 230 "Yes-No" |
| 20 | >> | HAS PROPERTIES | NUM | EV (111544, DCM, "Average breast feeding period") | 1 | U | | UNITS = EV (wk, UCUM, "Week") |
| 21 | > | CONTAINS | CODE | EV (364320009, SCT, "Pregnancy observable") | 1 | U | | DCID 6096 "Pregnancy Status" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|---|----|----------|-----------|-----------------------------------|
| 22 | > | CONTAINS | CODE | EV (111391, DCM, "Menstrual Cycle Phase") | 1 | U | | DCID 6163 "Menstrual Cycle Phase" |

TID 9002 Medication, Substance, Environmental Exposure

This general Template provides detailed information on a patient's medication or substance use, or exposure to environmental factors, including type and duration of use or exposure.

Table TID 9002. Parameters

| Parameter Name | Parameter Usage |
|--------------------|---|
| \$ContainerConcept | Coded term for the concept name of the CONTAINER, identifying it as medication, substance, or environmental exposure history. |
| \$CodeConcept | Coded term for the concept name of the CODE, identifying it as medication, substance, or environmental exposure. |
| \$CodeValue | Coded term or Context Group for value of the medication, substance, or environmental exposure. |
| \$Classification | Coded term or Context Group for classification of the medication, substance, or environmental exposure. |
| \$Route | Coded term or Context Group for the route of administration of the medication, substance, or route of environmental exposure. |
| \$Site | Coded term or Context Group for the anatomical site of administration of the medication, substance, or anatomical site of environmental exposure. |

Type: Extensible
Order: Significant
Root: No

Table TID 9002. Medication, Substance, Environmental Exposure

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|---|
| 1 | | | CONTAINER | \$ContainerConcept | 1 | M | | |
| 2 | > | CONTAINS | CODE | \$CodeConcept | 1-n | M | | \$CodeValue |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (G-C032, SRT, "Classification") | 1 | U | | \$Classification |
| 4 | >> | HAS OBS CONTEXT | CODE | EV (111534, DCM, "Role of person reporting") | 1 | U | | DCID 7450 "Person Roles" |
| 5 | >> | HAS PROPERTIES | NUM | EV (111524, DCM, "Age Started") | 1 | U | | DCID 7456 "Units of Measure for Age" |
| 6 | >> | HAS PROPERTIES | NUM | EV (111525, DCM, "Age Ended") | 1 | U | | DCID 7456 "Units of Measure for Age" |
| 7 | >> | HAS PROPERTIES | DATETIME | EV (111526, DCM, "DateTime Started") | 1 | U | | |
| 8 | >> | HAS PROPERTIES | DATETIME | EV (111527, DCM, "DateTime Ended") | 1 | U | | |
| 9 | >> | HAS PROPERTIES | NUM | EV (G-7290, SRT, "Duration") | 1 | U | | UNITS = DCID 6046 "Units of Follow-up Interval" |
| 10 | >> | HAS PROPERTIES | CODE | EV (111528, DCM, "Ongoing") | 1 | U | | DCID 230 "Yes-No" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|------|-----------------|------|--|----|----------|--------------------------|--|
| 11 | >> | HAS PROPERTIES | TEXT | EV (111529, DCM, "Brand Name") | 1 | U | | |
| 12 | >> | HAS PROPERTIES | NUM | DCID 6092 "Quantitative Concepts for Usage, Exposure" | 1 | U | | The unit of measure shall be quantity per unit of time |
| 13 | >> | HAS PROPERTIES | CODE | DCID 6093 "Qualitative Concepts for Usage, Exposure Amount" | 1 | U | | DCID 6090 "Relative Usage, Exposure Amount" |
| 14 | >> | HAS PROPERTIES | CODE | DCID 6094 "Qualitative Concepts for Usage, Exposure Frequency" | 1 | U | | DCID 6091 "Relative Frequency of Event Values" |
| 15 | >> | HAS PROPERTIES | CODE | EV (G-C340, SRT, "Route of administration") | 1 | U | | \$Route |
| 16 | >>> | HAS PROPERTIES | CODE | EV (G-C581, SRT, "Site of") | 1 | U | | \$Site |
| 17 | >>>> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | MC | IF Row 16 has laterality | DCID 244 "Laterality" |

Content Item Descriptions

| | |
|----------------|--|
| Row 3 | Classification is mapped in UMLS to (C0008902, UMLS, "Classification"). Its definition is completely generic; i.e., it does not refer to any particular type of classification. |
| Rows 13 & 14 | If both of these Content Items are instantiated, the concept names selected for each should match. For example, use "Relative dose amount" as the concept name for row 13 with "Relative dose frequency" as the concept name for row 14. |
| Row 15 | Even though the concept name is route of administration, it is also used for route of exposure in the case of environmental exposure. |
| Rows 16 and 17 | This pattern of route with a site and laterality modifier follows that used in TID 10022 "Radiopharmaceutical Administration Event Data". |

TID 9003 Previous Procedure

This general Template provides detailed information on a patient's previous procedure, surgery, or treatment.

Table TID 9003. Parameters

| Parameter Name | Parameter Usage |
|---------------------|--|
| \$ProcedureList | Coded term or Context Group for value of Previous Procedure |
| \$ProcedureModifier | Coded term or Context Group for value of Previous Procedure Modifier |
| \$NumConceptName | Coded term or Context Group for the concept name of a numeric property of the Previous Procedure |
| \$LateralityValue | Coded term or Context Group for value of Laterality |
| \$ProcedureResult | Coded term or Context Group for value of Result of Procedure |
| \$ComplicationValue | Coded term or Context Group for value of Complication |

Type: Extensible
Order: Significant
Root: No

Table TID 9003. Previous Procedure

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|--|-----|----------|-----------|-------------------------------------|
| 1 | | | CONTAINER | EV (111513, DCM, "Relevant Previous Procedures") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (111531, DCM, "Previous Procedure") | 1-n | M | | \$ProcedureList |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (111464, DCM, "Procedure Modifier") | 1-n | U | | \$ProcedureModifier |
| 4 | >> | HAS OBS CONTEXT | CODE | EV (111534, DCM, "Role of person reporting") | 1 | U | | DCID 7450 "Person Roles" |
| 5 | >> | HAS PROPERTIES | NUM | \$NumConceptName | 1-n | U | | |
| 6 | >> | HAS PROPERTIES | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | \$LateralityValue |
| 7 | >> | HAS PROPERTIES | DATETIME | EV (122146, DCM, "Procedure DateTime") | 1 | UC | XOR row 8 | |
| 8 | >> | HAS PROPERTIES | CODE | EV (111395, DCM, "Estimated Timeframe") | 1 | UC | XOR row 7 | BCID 6164 "Time Intervals" |
| 9 | >> | HAS PROPERTIES | NUM | EV (R-42009, SRT, "Number of occurrences") | 1 | U | | UNITS = EV (1, UCUM, "no units") |
| 10 | >> | HAS PROPERTIES | CODE | EV (DD-60002, SRT, "Complication of procedure") | 1-n | U | | \$ComplicationValue |
| 11 | >>> | HAS PROPERTIES | CODE | EV (111466, DCM, "Severity of Complication") | 1 | U | | DCID 251 "Severity of Complication" |
| 12 | >> | HAS PROPERTIES | CODE | EV (122177, DCM, "Procedure Result") | 1 | U | | \$ProcedureResult |
| 13 | >> | HAS PROPERTIES | INCLUDE | DTID 4207 "Breast Imaging Pathology Results" | 1-n | U | | |

TID 9004 Indicated Problem

This general Template provides information about indicated problems presented by a patient. For example, indicated breast problems relating to the purpose for a mammographic examination.

Table TID 9004. Parameters

| Parameter Name | Parameter Usage |
|-------------------|--|
| \$ProblemList | Coded term or Context Group for value of Indicated Problem |
| \$LateralityValue | Coded term or Context Group for value of Laterality |
| \$LocationValue | Coded term or Context Group for value of Location |

Type: Extensible
Order: Significant
Root: No

Table TID 9004. Indicated Problem

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|----------------------------------|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (11450-4, LN, "Problem List") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|----------|---|-----|----------|-----------|--|
| 2 | > | CONTAINS | CODE | EV (111533, DCM, "Indicated Problem") | 1-n | M | | \$ProblemList |
| 3 | >> | HAS OBS CONTEXT | CODE | EV (111534, DCM, "Role of person reporting") | 1 | U | | DCID 7450 "Person Roles" |
| 4 | >> | HAS OBS CONTEXT | DATETIME | EV (111535, DCM, "DateTime problem observed") | 1 | U | | |
| 5 | >> | HAS PROPERTIES | CODE | EV (G-C171, SRT, "Laterality") | 1 | U | | \$LateralityValue |
| 6 | >> | HAS PROPERTIES | CODE | EV (G-C0E3, SRT, "Finding site") | 1 | U | | \$LocationValue |
| 7 | >> | HAS PROPERTIES | NUM | EV (G-7290, SRT, "Duration") | 1 | U | | |
| 8 | >> | HAS PROPERTIES | CODE | EV (R-407E7, SRT, "Frequency") | 1 | U | | DCID 6091 "Relative Frequency of Event Values" |
| 9 | >> | HAS PROPERTIES | DATETIME | EV (111536, DCM, "DateTime of last evaluation") | 1 | U | | |
| 10 | >> | HAS PROPERTIES | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

TID 9005 Risk Factor

This general Template provides detailed information on the risk factors for a patient, related to medical history for themselves and family members.

Table TID 9005. Parameters

| Parameter Name | Parameter Usage |
|----------------|---|
| \$RiskList | Coded term or Context Group for value of Risk Factor |
| \$FamilyList | Coded term or Context Group for value of Family Member with Risk Factor |

Type: Extensible
Order: Significant
Root: No

Table TID 9005. Risk Factor

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------|---------------------------------------|
| 1 | | | CONTAINER | EV (111515, DCM, "Relevant Risk Factors") | 1 | M | | |
| 2 | > | CONTAINS | CODE | EV (F-01500, SRT, "Risk factor") | 1-n | M | | \$RiskList |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (111530, DCM, "Risk Factor modifier") | 1 | U | | EV (G-0002, SRT, "Family history of") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|------|--|-----|----------|--|---|
| 4 | >> | HAS PROPERTIES | NUM | EV (18185-9, LN, "Gestational Age") | 1 | UC | IFF value of row 2 is (G-0305, SRT, "History of - premature delivery") | |
| 5 | >> | HAS OBS CONTEXT | CODE | EV (111534, DCM, "Role of person reporting") | 1 | U | | DCID 7450 "Person Roles" |
| 6 | >> | HAS PROPERTIES | NUM | EV (111538, DCM, "Age at Occurrence") | 1 | U | | UNITS = EV (a, UCUM, "Year") |
| 7 | >> | HAS PROPERTIES | NUM | EV (G-7290, SRT, "Duration") | 1 | U | | UNITS = DCID 6046 "Units of Follow-up Interval" |
| 8 | >> | HAS PROPERTIES | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |
| 9 | >> | INFERRED FROM | CODE | EV (111537, DCM, "Family Member with Risk Factor") | 1-n | U | | \$FamilyList |
| 10 | >>> | HAS PROPERTIES | NUM | EV (111538, DCM, "Age at Occurrence") | 1 | U | | UNITS = EV (a, UCUM, "Year") |
| 11 | >>> | HAS CONCEPT MOD | CODE | EV (111539, DCM, "Menopausal phase") | 1 | U | | DCID 6086 "Menopausal Phase" |
| 12 | >>> | HAS CONCEPT MOD | CODE | EV (111540, DCM, "Side of Family") | 1 | U | | DCID 6097 "Side of Family" |

TID 9006 Obstetric History

This general Template collects the details of a patient's obstetric history for a current pregnancy. Information regarding previous pregnancies is conveyed using the Gynecological History Template.

Type: Extensible
Order: Significant
Root: No

Table TID 9006. Obstetric History

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|-----------------------------|
| 1 | | CONTAINS | CONTAINER | EV (R-20658, SRT, "Obstetric History") | 1 | M | | |
| 2 | > | CONTAINS | DATE | DCID 12003 "OB-GYN Dates" | 1-n | U | | |
| 3 | > | CONTAINS | NUM | EV (18185-9, LN, "Gestational Age") | 1 | U | | UNITS = EV (d, UCUM, "day") |
| 4 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1-n | U | | |

Content Item Descriptions

| | |
|-------------------------|---|
| Row 3 "Gestational Age" | Observation DateTime (0040,A032) for Content Item shall be present, in order to convey the date and time at which this Gestational Age was established. |
|-------------------------|---|

TID 9007 General Relevant Patient Information

This Template collects a patient's relevant information for general purpose use. This Template, together with its subordinate Templates, describes the history of a patient's reproductive system, medications, substance use, environmental exposure, past procedures, risk factors, and indicated problems.

Type: Extensible
Order: Significant
Root: No

Table TID 9007. General Relevant Patient Information

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|----|----------|-----------|---|
| 1 | | | CONTAINER | EV (111517, DCM, "Relevant Patient Information") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | CONTAINS | INCLUDE | DTID 3114 "Patient Assessment" | 1 | U | | |
| 4 | > | CONTAINS | INCLUDE | DTID 9002 "Medication, Substance, Environmental Exposure" | 1 | U | | \$ContainerConcept = EV (10160-0, LN, "History Of Medication Use") \$CodeConcept = EV (111516, DCM, "Medication Type") |
| 5 | > | CONTAINS | INCLUDE | DTID 9002 "Medication, Substance, Environmental Exposure" | 1 | U | | \$ContainerConcept = EV (111545, DCM, "Substance Use History") \$CodeConcept = EV (111546, DCM, "Used Substance Type") \$CodeValue = BCID 6089 "Substances" |
| 6 | > | CONTAINS | INCLUDE | DTID 9002 "Medication, Substance, Environmental Exposure" | 1 | U | | \$ContainerConcept = EV (111547, DCM, "Environmental Exposure History") \$CodeConcept = EV (111548, DCM, "Environmental Factor") |
| 7 | > | CONTAINS | INCLUDE | DTID 9003 "Previous Procedure" | 1 | U | | \$LateralityValue = BCID 244 "Laterality" |
| 8 | > | CONTAINS | INCLUDE | DTID 9004 "Indicated Problem" | 1 | U | | \$LateralityValue = BCID 244 "Laterality" |
| 9 | > | CONTAINS | INCLUDE | DTID 9005 "Risk Factor" | 1 | U | | \$RiskList = BCID 6087 "General Risk Factors" \$FamilyList = DCID 7451 "Family Member" |
| 10 | > | CONTAINS | INCLUDE | DTID 9001 "Gynecological History" | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|----|----------|-----------|----------------------|
| 11 | > | CONTAINS | INCLUDE | DTID 9006 "Obstetric History" | 1 | U | | |
| 12 | > | CONTAINS | INCLUDE | DTID 3802 "Cardiovascular Patient History" | 1 | U | | |
| 13 | > | CONTAINS | INCLUDE | DTID 351 "Previous Reports" | 1 | U | | |

X-Ray Radiation Dose SR IOD Templates

The Templates that comprise the X-Ray Radiation Dose SR are interconnected as in Figure A-14.

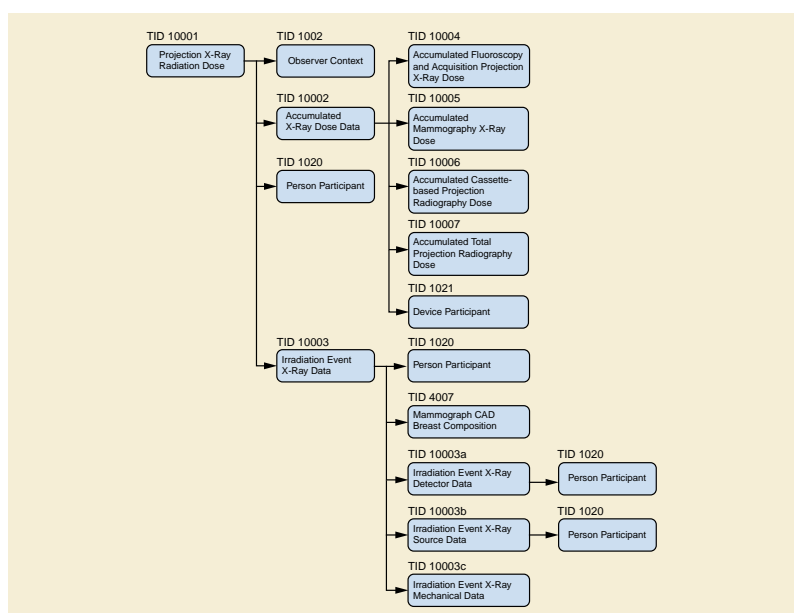


Figure A-14. X-Ray Radiation Dose SR IOD Template Structure

TID 10001 Projection X-Ray Radiation Dose

This Template defines a container (the root) with subsidiary Content Items, each of which represents a single projection X-Ray irradiation event entry or plane-specific dose accumulations. There is a defined recording observer (the system or person responsible for recording the log, generally the system). A Biplane irradiation event will be recorded as two individual events, one for each plane. Accumulated values will be kept separate for each plane.

Type: Extensible
Order: Non-Significant
Root: Yes

Table TID 10001. Projection X-Ray Radiation Dose

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (113701, DCM, "X-Ray Radiation Dose Report") | 1 | M | | Root node |
| 1b | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|--|---|
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | DT (113704, DCM, "Projection X-Ray") DT (P5-40010, SRT, "Mammography") |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E8, SRT, "Has Intent") | 1 | M | | DCID 3629 "Procedure Intent" |
| 4 | > | CONTAINS | CODE | EV (122142, DCM, "Acquisition Device Type") | 1 | U | | DCID 10032 "Projection X-Ray Acquisition Device Types" |
| 5 | > | | INCLUDE | DTID 1002 "Observer Context" | 1-n | M | | |
| 6 | > | HAS OBS CONTEXT | CODE | EV (113705, DCM, "Scope of Accumulation") | 1 | M | | DCID 10000 "Scope of Accumulation" |
| 7 | >> | HAS PROPERTIES | UIDREF | DCID 10001 "UID Types" | 1 | M | | |
| 8 | > | CONTAINS | CODE | EV (113945, DCM, "X-Ray Detector Data Available") | 1 | U | | DCID 230 "Yes-No" |
| 9 | > | CONTAINS | CODE | EV (113943, DCM, "X-Ray Source Data Available") | 1 | U | | DCID 230 "Yes-No" |
| 10 | > | CONTAINS | CODE | EV (113944, DCM, "X-Ray Mechanical Data Available") | 1 | U | | DCID 230 "Yes-No" |
| 11 | > | CONTAINS | INCLUDE | DTID 10002 "Accumulated X-Ray Dose" | 1 | MC | IFF Single Plane system | \$Plane = EV (113622, DCM, "Single Plane") |
| 12 | > | CONTAINS | INCLUDE | DTID 10002 "Accumulated X-Ray Dose" | 1 | MC | IFF Biplane system | \$Plane = EV (113620, DCM, "Plane A") |
| 13 | > | CONTAINS | INCLUDE | DTID 10002 "Accumulated X-Ray Dose" | 1 | MC | IFF Biplane system | \$Plane = EV (113621, DCM, "Plane B") |
| 14 | > | CONTAINS | INCLUDE | DTID 10003 "Irradiation Event X-Ray Data" | 1-n | MC | IF any of the values of TID (10001) Row 18 are not (113858, DCM, "MPPS Content"), (113866, DCM, "Copied From Image Attributes") or (113867, DCM, "Computed From Image Attributes") | |
| 15 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |
| 16 | > | CONTAINS | IMAGE | EV (121342, DCM, "Dose Image") | 1-n | U | | |
| 17 | > | CONTAINS | INCLUDE | DTID 1020 "Person Participant" | 1 | U | | \$PersonProcedureRole = EV (113850, DCM, "Irradiation Authorizing") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|--|-----|----------|-----------|--|
| 18 | > | CONTAINS | CODE | EV (113854, DCM, "Source of Dose Information") | 1-n | M | | DCID 10020 "Source of Projection X-Ray Dose Information" |

Content Item Descriptions

| | |
|--------|--|
| Row 2 | <p>"Projection X-Ray" refers to procedures performed on either integrated equipment (where information is passed between the X-Ray source (generator and tube), detector, and mechanical systems), or non-integrated equipment (where data might not be available for one or more components such as cassette-based systems). The data availability can be described in Rows 8, 9 and 10. The specific type of equipment can be described in Row 4.</p> <p>The coded term for "Mammography" is intended to encompass all types of projection X-Ray imaging of the breast.</p> <p>Note</p> <p>Mammography exams are distinguished by a different value in this attribute, Angiography exams are distinguished by the Irradiation Event Type attribute = Fluoroscopy, CR/DR exams are distinguished by one or more of the Data Availability Flags = No, and CT exams are distinguished by the use of a different Template.</p> |
| Row 5 | The observer context may include both a Person Observer identification, as well as the identity of the equipment providing the values for the irradiation event (Device Observer identification), if not inherited. |
| Row 8 | <p>A value of "No" indicates that details associated with the X-Ray Detector are not available to the device generating this report. For example, an X-Ray Source system might lack any communication with the associated cassette-based X-Ray detector or any method of entering such information.</p> <p>A value of "Yes" or the absence of this row means that the details are available.</p> |
| Row 9 | <p>A value of "No" indicates that details associated with the X-Ray Source are not available to the device generating this report. For example, a cassette-based X-Ray detector might lack any communication with the associated X-Ray Source or any method of entering such information.</p> <p>A value of "Yes" or the absence of this row means that the details are available.</p> |
| Row 10 | <p>A value of "No" indicates that details associated with the Gantry and/or Table are not available to the device generating this report. For example, a cassette-based X-Ray detector might lack any communication with the associated gantry/table or any method of entering such information.</p> <p>A value of "Yes" or the absence of this row means that the details are available.</p> |
| Row 11 | Cassette-based X-Ray systems should consider themselves to be Single Plane systems. |
| Row 14 | Details of the underlying irradiation events. If Row 18 has a value of "MPPS Content" then a TID 10003 "Irradiation Event X-Ray Data" item may be generated for each item in the MPPS Exposure Dose Sequence (0040,030E), but since this is an optional element in MPPS, if it is absent, empty or incomplete, there may be no irradiation event level information available. Alternatively, the information may be copied or computed from the images. |
| Row 16 | The Dose Image references a graphic representation of the radiation dose distribution. This may be a Secondary Capture scan of a dosimetry film. |
| Row 17 | The physician responsible for determining that the irradiating procedure was appropriate for the indications. The value may come from Requesting Physician (0032,1032), Requesting Physician Identification Sequence (0032,1031) or somewhere else based on hospital policies. |
| Row 18 | The primary source of information from which this dose object was constructed. The Source of Dose Information (Row 18) is independent of the Scope Of Accumulation (Row 6); e.g., it would be typical to have a scope of (113016, DCM, "Performed Procedure Step"), but a source of (113856, DCM, "Automated Data Collection") rather than (113858, DCM, "MPPS Content"). |

TID 10002 Accumulated X-Ray Dose

This general Template provides detailed information on projection X-Ray dose value accumulations over several irradiation events from the same equipment (typically a study or a performed procedure step).

Table TID 10002. Parameters

| Parameter Name | Parameter Usage |
|----------------|--|
| \$Plane | Coded term identifying to which acquisition plane the encoded information belongs. |

Type: Extensible
Order: Non-Significant
Root: No

Table TID 10002. Accumulated X-Ray Dose

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|-----|----------|---|---------------------------------------|
| 1 | | | CONTAINER | EV (113702, DCM, "Accumulated X-Ray Dose Data") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (113764, DCM, "Acquisition Plane") | 1 | M | | \$Plane |
| 3 | > | CONTAINS | CONTAINER | EV (122505, DCM, "Calibration") | 1-n | MC | IFF Calibration Data is available | |
| 4 | >> | HAS CONCEPT MOD | CODE | EV (113794, DCM, "Dose Measurement Device") | 1 | M | | DCID 10010 "Dose Measurement Devices" |
| 5 | >> | CONTAINS | DATETIME | EV (113723, DCM, "Calibration DateTime") | 1 | M | | |
| 6 | >> | CONTAINS | NUM | EV (122322, DCM, "Calibration Factor") | 1 | M | | UNITS = EV (1, UCUM, "no units") |
| 7 | >> | CONTAINS | NUM | EV (113763, DCM, "Calibration Uncertainty") | 1 | M | | UNITS = EV (% , UCUM, "Percent") |
| 8 | >> | CONTAINS | TEXT | EV (113724, DCM, "Calibration Responsible Party") | 1 | M | | |
| 9 | >> | CONTAINS | TEXT | EV (113720, DCM, "Calibration Protocol") | 1 | U | | |
| 10 | > | CONTAINS | INCLUDE | DTID 10004 "Accumulated Fluoroscopy and Acquisition Projection X-Ray Dose" | 1 | MC | IFF TID (10001) Row 4 = (113957, DCM, "Fluoroscopy-Guided Projection Radiography System") or TID (10001) Row 2 = (113704, DCM, "Projection X-Ray") and TID (10001) Row 4 is absent) | |
| 11 | > | CONTAINS | INCLUDE | DTID 10005 "Accumulated Mammography X-Ray Dose" | 1 | MC | IFF TID (10001) Row 2 = (P5-40010, SRT, "Mammography") | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|----|----------|--|--|
| 12 | > | CONTAINS | INCLUDE | DTID 10007 "Accumulated Total Projection Radiography Dose" | 1 | MC | IFF TID (10001) Row 4 = (113958, DCM, "Integrated Projection Radiography System") or TID (10001) Row 4 = (113957, DCM, "Fluoroscopy-Guided Projection Radiography System") or TID (10001) Row 2 = (113704, DCM, "Projection X-Ray") and TID (10001) Row 4 is absent) | |
| 13 | > | CONTAINS | INCLUDE | DTID 10006 "Accumulated Cassette-based Projection Radiography Dose" | 1 | MC | IFF TID (10001) Row 4 = (113959, DCM, "Cassette-based Projection Radiography System") | |
| 14 | > | CONTAINS | INCLUDE | DTID 1021 "Device Participant" | 1 | MC | Required if the irradiating device is not the recording device and the dose was accumulated on a single device. | \$DeviceProcedureRole = EV (113859, DCM, "Irradiating Device") |

Content Item Descriptions

| | |
|--------|--|
| Row 5 | Date that the calibration of the equipment's dose indicators was performed |
| Row 6 | Typically a value provided by the medical physicist. The recorded dose or dose area product values in this report can be multiplied by this factor to obtain estimated real-world values. Note It is important that this value must not be applied to the measured values before storing them in the report. |
| Row 7 | Value range from 0 to 100 percent. Uncertainty of the 'actual' value expressed as +/- of the mean. |
| Row 8 | Identifies Individual or organization responsible for calibration |
| Row 9 | Describes calibration protocol according to equipment standards or local guidelines. |
| Row 14 | The device that produced the irradiation accumulated in this Template. I.e., the X-Ray source. This is not required to be present if the information is the same as that already recorded in TID 1004 "Device Observer Identifying Attributes" encoded via the inclusion of TID 1002 "Observer Context" in TID 10001 "Projection X-Ray Radiation Dose" Row 5, which in turn may be absent if identical to the content in the Enhanced General Equipment Module, or if more than one device produced the accumulated irradiation. |

TID 10003 Irradiation Event X-Ray Data

This Template conveys the dose and equipment parameters of a single irradiation event.

The Template and requirements are structured to consider equipment with various levels of integration between the components (X-Ray Source, Plate or Detector, and Gantry/Table) of the equipment.

An irradiation event is the loading of X-Ray equipment caused by a single continuous actuation of the equipment's irradiation switch, from the start of the loading time of the first pulse until the loading time trailing edge of the final pulse. The irradiation event is the "smallest" information entity to be recorded in the realm of Radiation Dose reporting. Individual Irradiation Events are described by a set of accompanying physical parameters that are sufficient to understand the "quality" of irradiation that is being applied. This set of parameters may be different for the various types of equipment that are able to create irradiation events. Any automatic on-off

switching of the irradiation source during the event shall not be treated as separate events, rather the event includes the time between start and stop of irradiation as triggered by the user. E.g., a pulsed fluoro X-Ray acquisition shall be treated as a single irradiation event.

As described in Section 6.2.4, measurement concepts may be post-coordinated, even though not explicitly specified in the Template. In particular, post-coordination using modifier concept (121401, DCM, "Derivation"), with modifier values drawn from CID 10009 "Measured/Calculated" would be appropriate to encode indications of measured or of calculated values.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 10003. Irradiation Event X-Ray Data

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|---|---|
| 1 | | | CONTAINER | EV (113706, DCM, "Irradiation Event X-Ray Data") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (113764, DCM, "Acquisition Plane") | 1 | M | | DCID 10003 "Equipment Plane Identification" |
| 3 | > | CONTAINS | UIDREF | EV (113769, DCM, "Irradiation Event UID") | 1 | M | | |
| 4 | > | CONTAINS | TEXT | EV (113605, DCM, "Irradiation Event Label") | 1 | U | | |
| 5 | >> | HAS CONCEPT MOD | CODE | EV (113606, DCM, "Label Type") | 1 | MC | IF the value of Row 4 is the value of an Attribute in the images. | DCID 10022 "Label Types" |
| 6 | > | CONTAINS | DATETIME | DT (111526, DCM, "DateTime Started") | 1 | M | | |
| 7 | > | CONTAINS | CODE | EV (113721, DCM, "Irradiation Event Type") | 1 | M | | DCID 10002 "Irradiation Event Types" |
| 8 | > | CONTAINS | TEXT | EV (125203, DCM, "Acquisition Protocol") | 1 | U | | |
| 9 | > | CONTAINS | CODE | EV (T-D0005, SRT, "Anatomical structure") | 1 | U | | DCID 4009 "DX Anatomy Imaged" |
| 10 | >> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | UC | If anatomy is bi-lateral | DCID 244 "Laterality" |
| 11 | > | CONTAINS | CODE | EV (111031, DCM, "Image View") | 1 | U | | DCID 4010 "DX View" DCID 4014 "View for Mammography" |
| 12 | >> | HAS CONCEPT MOD | CODE | EV (111032, DCM, "Image View Modifier") | 1-n | U | | DCID 4011 "DX View Modifier" DCID 4015 "View Modifier for Mammography" |
| 13 | >> | CONTAINS | CODE | EV (113946, DCM, "Projection Eponymous Name") | 1 | U | | DCID 4012 "Projection Eponymous Name" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|--|---|
| 14 | > | CONTAINS | CODE | EV (113745, DCM, "Patient Table Relationship") | 1 | U | | DCID 21 "Patient Equipment Relationship" |
| 15 | > | CONTAINS | CODE | EV (113743, DCM, "Patient Orientation") | 1 | U | | DCID 19 "Patient Orientation" |
| 16 | >> | HAS CONCEPT MOD | CODE | EV (113744, DCM, "Patient Orientation Modifier") | 1 | M | | DCID 20 "Patient Orientation Modifier" |
| 17 | > | CONTAINS | CODE | EV (123014, DCM, "Target Region") | 1 | M | | DCID 4031 "Common Anatomic Regions" |
| 18 | > | CONTAINS | NUM | EV (122130, DCM, "Dose Area Product") | 1 | MC | IFF TID (10001) Row 2 = (113704, DCM, "Projection X-Ray") | UNITS = EV (Gy.m2, UCUM, "Gy.m2") |
| 19 | > | CONTAINS | NUM | EV (111634, DCM, "Half Value Layer") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 20 | > | CONTAINS | NUM | EV (111638, DCM, "Patient Equivalent Thickness") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 21 | > | CONTAINS | NUM | EV (111636, DCM, "Entrance Exposure at RP") | 1 | MC | IF TID (10001) Row 2 = (P5-40010, SRT, "Mammography") and (TID (10001) Row 9 is absent or value is (R-0038D, SRT, "Yes")) and (TID (10001) Row 10 is absent or value is (R-0038D, SRT, "Yes")) | UNITS = EV (mGy, UCUM, "mGy") |
| 22 | > | CONTAINS | TEXT | EV (113780, DCM, "Reference Point Definition") | 1 | MC | IF Row 21 is present and Row 23 is not present | |
| 23 | > | CONTAINS | CODE | EV (113780, DCM, "Reference Point Definition") | 1 | MC | IF Row 21 is present and Row 22 is not present | DCID 10025 "Radiation Dose Reference Points" |
| 24 | > | CONTAINS | INCLUDE | DTID 4007 "Mammography CAD Breast Composition" | 1 | U | | |
| 25 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |
| 26 | > | CONTAINS | INCLUDE | DTID 1020 "Person Participant" | 1-n | U | | \$PersonProcedureRole = EV (113851, DCM, "Irradiation Administering") |
| 27 | > | CONTAINS | INCLUDE | DTID 10003A "Irradiation Event X-Ray Detector Data" | 1 | MC | IFF TID (10001) Row 8 is absent or has a value of (R-0038D, SRT, "Yes") | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|----|----------|--|----------------------|
| 28 | > | CONTAINS | INCLUDE | DTID 10003B "Irradiation Event X-Ray Source Data" | 1 | MC | IFF TID (10001) Row 9 is absent or has a value of (R-0038D, SRT, "Yes") | |
| 29 | > | CONTAINS | INCLUDE | DTID 10003C "Irradiation Event X-Ray Mechanical Data" | 1 | MC | IFF TID (10001) Row 10 is absent or has a value of (R-0038D, SRT, "Yes") | |

Content Item Descriptions

| | |
|--------|---|
| Row 3 | If the image generating entity does not assign a DICOM UID to the irradiation event (e.g., for non-digital imaging equipment), the application generating this report shall assign a UID. In the case of non-integrated cassette-based equipment, a standalone Detector will generate UIDs for the Events it observes. If the X-Ray Source component of the equipment also reports information, it too will generate UIDs for the Events it creates. A downstream system (e.g., a workstation or the Dose Information Reporter itself) may combine the two reports into a composite report, and match up the events based on details such as the time information, and use the UIDs of the X-Ray Source. |
| Row 6 | Provide DateTime the application of X-Ray started. This shall correspond to the start of the first irradiation in the Irradiation Event, which defines the starting point for the calculation of Row 36 "Irradiation Duration". |
| Row 17 | The target region is the anatomy exposed. |
| Row 21 | A text definition of the Reference Point (RP) used for RP-related dose values. |
| Row 22 | A coded definition of the Reference Point (RP) used for RP-related dose values |
| Row 26 | People responsible for the administration of the radiation reported in the irradiation event. May include values that would appear in Performing Physicians' Name (0008,1050), Performing Physician Identification Sequence (0008,1052), Operators' Name (0008,1070) and/or Operator Identification Sequence (0008,1072). |

TID 10003A Irradiation Event X-Ray Detector Data

This Template contains data that is expected to be available to the X-Ray detector or plate reader component of the equipment.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 10003A. Irradiation Event X-Ray Detector Data

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----|---|----|----------|---|----------------------------------|
| 1 | | | NUM | EV (113845, DCM, "Exposure Index") | 1 | MC | IF the value is displayable to the X-Ray system operator. | UNITS = EV (1, UCUM, "no units") |
| 2 | | | NUM | EV (113846, DCM, "Target Exposure Index") | 1 | MC | IF the value is displayable to the X-Ray system operator. | UNITS = EV (1, UCUM, "no units") |
| 3 | | | NUM | EV (113847, DCM, "Deviation Index") | 1 | MC | IF the value is displayable to the X-Ray system operator. | UNITS = EV (1, UCUM, "no units") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|---------|------------------------------------|-----|----------|--|--|
| 4 | | | INCLUDE | DTID 1021 "Device Participant" | 1 | U | | \$DeviceProcedureRole = EV (113942, DCM, "X-Ray Reading Device") |
| 5 | | | IMAGE | EV (113795, DCM, "Acquired Image") | 1-n | MC | IFF Image Object is created for this irradiation event | |

Content Item Descriptions

| | |
|-------|---|
| Row 4 | The device that read the detector of this Irradiation Event. E.g., the CR Plate Reader. |
| Row 5 | Reference to Image instances created during this event, if any. The UID reference(s) provided here shall be the values at the time the images were initially created. (Note that image UIDs may be changed as the images are managed over a long term.) |

TID 10003B Irradiation Event X-Ray Source Data

This Template contains data that is expected to be available to the X-Ray source component of the equipment.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 10003B. Irradiation Event X-Ray Source Data

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|----|----------|--|--|
| 1 | | | NUM | EV (113738, DCM, "Dose (RP) ") | 1 | MC | IF TID (10001) Row 2 = (113704, DCM, "Projection X-Ray") AND any of the values of TID (10001) Row 18 are not (113858, DCM, "MPPS Content") | UNITS = EV (Gy, UCUM, "Gy") |
| 2 | | | TEXT | EV (113780, DCM, "Reference Point Definition") | 1 | MC | IF Row 1 is present and Row 3 is not present | |
| 3 | | | CODE | EV (113780, DCM, "Reference Point Definition") | 1 | MC | IF Row 1 is present and Row 2 is not present | DCID 10025 "Radiation Dose Reference Points" |
| 4 | | | NUM | EV (111631, DCM, "Average Glandular Dose") | 1 | MC | IFF TID (10001) Row 2 = (P5-40010, SRT, "Mammography") | UNITS = EV (mGy, UCUM, "mGy") |
| 5 | | | CODE | EV (113732, DCM, "Fluoro Mode") | 1 | UC | IFF TID (10003) Row 7 value = (P5-06000, SRT, "Fluoroscopy") | DCID 10004 "Fluoro Modes" |
| 6 | | | NUM | EV (113791, DCM, "Pulse Rate") | 1 | MC | IFF Row 5 value = (113631, DCM, "Pulsed") | UNITS = EV ({pulse}/s, UCUM, "pulse/s") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|---|--|
| 7 | | | NUM | EV (113768, DCM, "Number of Pulses") | 1 | MC | IFF Row 5 is not present or Row 5 is present and equals (113631, DCM, "Pulsed") | UNITS = EV (1, UCUM, "no units") |
| 8 | > | HAS CONCEPT MOD | CODE | EV (121401, DCM, "Derivation") | 1 | MC | IFF count of pulses in Row 7 is estimated | EV (R-10260, SRT, "Estimated") |
| 9 | | | NUM | EV (113793, DCM, "Pulse Width") | 1-n | U | | UNITS = EV (ms, UCUM, "ms") |
| 10 | | | NUM | EV (113742, DCM, "Irradiation Duration") | 1 | U | | UNITS = EV (s, UCUM, "s") |
| 11 | | | NUM | EV (113733, DCM, "KVP") | 1-n | M | | UNITS = EV (kV, UCUM, "kV") |
| 12 | | | NUM | EV (113734, DCM, "X-Ray Tube Current") | 1-n | MC | IF Row 15 is not present | UNITS = EV (mA, UCUM, "mA") |
| 13 | | | NUM | EV (113767, DCM, "Average X-Ray Tube Current") | 1 | U | | UNITS = EV (mA, UCUM, "mA") |
| 14 | | | NUM | EV (113824, DCM, "Exposure Time") | 1 | MC | IF Row 15 is not present | UNITS = EV (ms, UCUM, "ms") |
| 15 | | | NUM | EV (113736, DCM, "Exposure") | 1-n | MC | IF Row 12 or 14 is not present | UNITS = EV (uA.s, UCUM, "uA.s") |
| 16 | | | NUM | EV (113766, DCM, "Focal Spot Size") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 17 | | | CODE | EV (111632, DCM, "Anode Target Material") | 1 | U | | DCID 10016 "Anode Target Material" |
| 18 | | | CONTAINER | EV (113771, DCM, "X-Ray Filters") | 1-n | U | | |
| 19 | > | CONTAINS | CODE | EV (113772, DCM, "X-Ray Filter Type") | 1 | U | | DCID 10007 "X-Ray Filter Types" |
| 20 | > | CONTAINS | CODE | EV (113757, DCM, "X-Ray Filter Material") | 1 | U | | DCID 10006 "X-Ray Filter Materials" |
| 21 | > | CONTAINS | NUM | EV (113758, DCM, "X-Ray Filter Thickness Minimum") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 22 | > | CONTAINS | NUM | EV (113773, DCM, "X-Ray Filter Thickness Maximum") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 23 | | | NUM | EV (113790, DCM, "Collimated Field Area") | 1 | U | | UNITS = EV (m2, UCUM, "m2") |
| 24 | | | NUM | EV (113788, DCM, "Collimated Field Height") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 25 | | | NUM | EV (113789, DCM, "Collimated Field Width") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 26 | | | CODE | EV (111635, DCM, "X-Ray Grid") | 1-n | U | | DCID 10017 "X-Ray Grid" |
| 27 | | | INCLUDE | DTID 1021 "Device Participant" | 1 | MC | Required if the irradiating device is not the recording device. | \$DeviceProcedureRole = EV (113859, DCM, "Irradiating Device") |

Content Item Descriptions

| | |
|--------|---|
| Row 1 | Dose applied by this irradiation event, relative to defined reference point. |
| Row 7 | If a precise count of pulses is not available, an estimated number shall be provided, and the Row 8 Concept Modifier shall indicate "Estimated" |
| Row 9 | Pulse width as measured/recorded by the system, either as a single total value, or as multiple values. If multiple values are provided, their number shall match the value in Row 7 "Number of Pulses". |
| Row 11 | KVP value as measured/recorded by system, either as a single mean value, or as multiple values. If multiple values are provided, their number shall match the value in Row 7 "Number of Pulses". |
| Row 12 | Tube current as measured/recorded by system, either as a single mean value, or as multiple values. If multiple values are provided, their number shall match the value in Row 7 "Number of Pulses". |
| Row 14 | Exposure time as measured/recorded by the system. |
| Row 15 | Exposure as measured/recorded by system, either as a single total value, or as multiple values. If multiple values are provided, their number shall match the value in Row 7 "Number of Pulses". The Exposure will be affected by the shape of the pulse and other factors, and may not be a simple multiplication of tube current and exposure time. |
| Row 18 | If one or more Filter(s) were applied during this irradiation event |
| Row 23 | Collimated area at the receptor plane. |
| Row 27 | The device that produced the irradiation in this Irradiation Event. I.e., the X-Ray source. This is not required to be present if the information is the same as that already recorded in TID 1004 "Device Observer Identifying Attributes" encoded via the inclusion of TID 1002 "Observer Context" in TID 10001 "Projection X-Ray Radiation Dose" Row 5, which in turn may be absent if identical to the content in the Enhanced General Equipment Module. |

TID 10003C Irradiation Event X-Ray Mechanical Data

This Template contains data that is expected to be available to the gantry or mechanical component of the equipment.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 10003C. Irradiation Event X-Ray Mechanical Data

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|----|----------|---|---|
| 1 | | | CODE | EV (113956, DCM, "CR/DR Mechanical Configuration") | 1 | U | | DCID 10031 "CR/DR Mechanical Configuration" |
| 2 | | | NUM | EV (112011, DCM, "Positioner Primary Angle") | 1 | UC | XOR Row 6 | UNITS = EV (deg, UCUM, "deg") |
| 3 | | | NUM | EV (112012, DCM, "Positioner Secondary Angle") | 1 | UC | XOR Row 6 | UNITS = EV (deg, UCUM, "deg") |
| 4 | | | NUM | EV (113739, DCM, "Positioner Primary End Angle") | 1 | UC | IFF TID (10003) Row 7 value = (113613, DCM, "Rotational Acquisition") | UNITS = EV (deg, UCUM, "deg") |
| 5 | | | NUM | EV (113740, DCM, "Positioner Secondary End Angle") | 1 | UC | IFF TID (10003) Row 7 value = (113613, DCM, "Rotational Acquisition") | UNITS = EV (deg, UCUM, "deg") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----|---|-----|----------|---------------|-------------------------------|
| 6 | | | NUM | EV (113770, DCM, "Column Angulation") | 1 | UC | XOR Rows 2, 3 | UNITS = EV (deg, UCUM, "deg") |
| 7 | | | NUM | EV (113754, DCM, "Table Head Tilt Angle") | 1 | U | | UNITS = EV (deg, UCUM, "deg") |
| 8 | | | NUM | EV (113755, DCM, "Table Horizontal Rotation Angle") | 1 | U | | UNITS = EV (deg, UCUM, "deg") |
| 9 | | | NUM | EV (113756, DCM, "Table Cradle Tilt Angle") | 1 | U | | UNITS = EV (deg, UCUM, "deg") |
| 10 | | | NUM | EV (111633, DCM, "Compression Thickness") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 11 | | | NUM | DCID 10008 "Dose Related Distance Measurements" | 1-n | U | | UNITS = EV (mm, UCUM, "mm") |

Content Item Descriptions

| | |
|-------|---|
| Row 2 | Angle in patient's "equatorial" plane (LAO to RAO). For dynamically changing angle during the event, the start value shall be provided. Equivalent to (0018,1510) in an image instance. |
| Row 3 | Angle in patient's "sagittal" plane (CRAN to CAUD). For dynamically changing angle during the event, the start value shall be provided. Equivalent to (0018,1511) in an image instance. |
| Row 4 | In case of motion during irradiation event, Positioner Primary ending angle |
| Row 5 | In case of motion during irradiation event., Positioner Secondary ending angle |
| Row 6 | Column device Angle in equipment based coordinates |

TID 10004 Accumulated Fluoroscopy and Acquisition Projection X-Ray Dose

This general Template provides detailed information on projection X-Ray dose value accumulations over several irradiation events from the same equipment (typically a study or a performed procedure step).

Type: Extensible
Order: Non-Significant
Root: No

Table TID 10004. Accumulated Fluoroscopy and Acquisition Projection X-Ray Dose

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----|--|----|----------|--|-----------------------------------|
| 1 | | | NUM | EV (113726, DCM, "Fluoro Dose Area Product Total") | 1 | MC | IFF TID (10003) Row 7 value = (P5-06000, SRT, "Fluoroscopy") for at least one irradiation event | UNITS = EV (Gy.m2, UCUM, "Gy.m2") |
| 2 | | | NUM | EV (113728, DCM, "Fluoro Dose (RP) Total") | 1 | MC | IFF TID (10003) Row 7 value = (P5-06000, SRT, "Fluoroscopy") for at least one irradiation event AND any of the values of TID (10001) Row 18 are not (113858, DCM, "MPPS Content"). | UNITS = EV (Gy, UCUM, "Gy") |
| 3 | | | NUM | EV (113730, DCM, "Total Fluoro Time") | 1 | MC | IFF TID (10003) Row 7 value = (P5-06000, SRT, "Fluoroscopy") for at least one irradiation event. | UNITS = EV (s, UCUM, "s") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----|---|----|----------|---|-----------------------------------|
| 4 | | | NUM | EV (113727, DCM, "Acquisition Dose Area Product Total") | 1 | MC | IF any of the values of TID (10001) Row 18 are not (113858, DCM, "MPPS Content"). | UNITS = EV (Gy.m2, UCUM, "Gy.m2") |
| 5 | | | NUM | EV (113729, DCM, "Acquisition Dose (RP) Total") | 1 | MC | IF any of the values of TID (10001) Row 18 are not (113858, DCM, "MPPS Content"). | UNITS = EV (Gy, UCUM, "Gy") |
| 6 | | | NUM | EV (113855, DCM, "Total Acquisition Time") | 1 | MC | IF any of the values of TID (10001) Row 18 are not (113858, DCM, "MPPS Content"). | UNITS = EV (s, UCUM, "s") |

Content Item Descriptions

| | |
|----------|---|
| Rows 1-3 | Fluoroscopic component only |
| Row 3 | Total clock time of Fluoroscopy accumulated over the defined scope of accumulation (i.e., the sum of the Irradiation Duration values for accumulated fluoroscopy irradiation events) |
| Rows 4-6 | Acquisition component only |
| Row 6 | Total clock time of acquisitions accumulated over the defined scope of accumulation (i.e., the sum of the Irradiation Duration values for accumulated acquisition irradiation events) |

TID 10005 Accumulated Mammography X-Ray Dose

This modality specific Template provides detailed information on breast imaging projection X-Ray dose value accumulations over several irradiation events from the same equipment (typically a study or a performed procedure step).

Type: Extensible
Order: Significant
Root: No

Table TID 10005. Accumulated Mammography X-Ray Dose

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|--|-----|----------|-----------|-------------------------------|
| 1 | | | NUM | EV (111637, DCM, "Accumulated Average Glandular Dose") | 1-2 | M | | UNITS = EV (mGy, UCUM, "mGy") |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | M | | DCID 6022 "Side" |

TID 10006 Accumulated Cassette-based Projection Radiography Dose

This Template provides information on Projection Radiography dose values accumulated on Cassette-based systems over one or more irradiation events (typically a study or a performed procedure step) from the same equipment.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 10006. Accumulated Cassette-Based Projection Radiography Dose

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|-----------------------------------|----|----------|--|-----------------------------|
| 1 | | | CODE | EV (113947, DCM, "Detector Type") | 1 | MC | IF TID (10001) Row 8 is absent or value is (R-0038D, SRT, "Yes") | DCID 10030 "Detector Types" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----|---|----|----------|--|----------------------------------|
| 2 | | | NUM | EV (113731, DCM, "Total Number of Radiographic Frames") | 1 | MC | IF TID (10001) Row 8 is absent or value is (R-0038D, SRT, "Yes") | UNITS = EV (1, UCUM, "no units") |

Content Item Descriptions

| | |
|-------|---|
| Row 2 | The number of radiographic frames recorded by the X-Ray detector or the number of exposures recorded by the X-Ray source, whichever is known to be greater. |
|-------|---|

TID 10007 Accumulated Total Projection Radiography Dose

This Template provides information on total Projection Radiography dose values accumulated on Integrated or combined fluoroscopy/acquisition systems over one or more irradiation events (typically a study or a performed procedure step) from the same equipment.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 10007. Accumulated Total Projection Radiography Dose

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|------|---|----|----------|--|---|
| 1 | | | NUM | EV (113722, DCM, "Dose Area Product Total") | 1 | M | | UNITS = EV (Gy.m2, UCUM, "Gy.m2") |
| 2 | | | NUM | EV (113725, DCM, "Dose (RP) Total") | 1 | MC | IF TID (10001) Row 4 = (113958, DCM, "Integrated Projection Radiography System") or any of the values of TID (10001) Row 18 are not (113858, DCM, "MPPS Content"). | UNITS = EV (Gy, UCUM, "Gy") |
| 3 | | | NUM | EV (113737, DCM, "Distance Source to Reference Point") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 4 | | | NUM | EV (113731, DCM, "Total Number of Radiographic Frames") | 1 | U | | UNITS = EV (1, UCUM, "no units") |
| 5 | | | CODE | EV (113780, DCM, "Reference Point Definition") | 1 | MC | IF any of (113725, DCM, "Dose (RP) Total"), (113728, DCM, "Fluoro Dose (RP) Total") or (113729, DCM, "Acquisition Dose (RP) Total") are present, and Row 6 is not present. | DCID 10025 "Radiation Dose Reference Points" |
| 6 | | | TEXT | EV (113780, DCM, "Reference Point Definition") | 1 | MC | IF any of (113725, DCM, "Dose (RP) Total"), (113728, DCM, "Fluoro Dose (RP) Total") or (113729, DCM, "Acquisition Dose (RP) Total") are present, and Row 5 is not present. | |

Content Item Descriptions

| | |
|-------|-------------------------------|
| Row 1 | Accumulated Dose Area Product |
|-------|-------------------------------|

| | |
|-------|--|
| Row 2 | Accumulated dose relative to reference point. |
| Row 3 | A single value for Radiography systems calculating reference point dose based on fixed distance. |
| Row 5 | A coded definition of the Reference Point (RP) used for RP-related dose values. |
| Row 6 | A text definition of the Reference Point (RP) used for RP-related dose values. |

CT Radiation Dose SR IOD Templates

The Templates that comprise the CT Radiation Dose SR are interconnected as in Figure A-15.

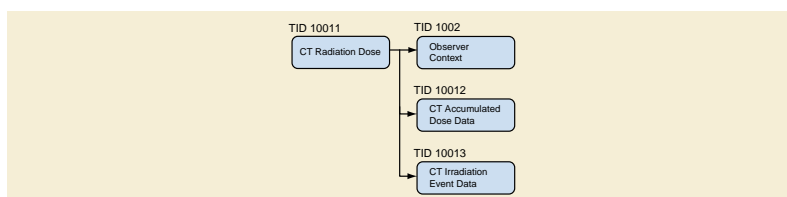


Figure A-15. CT Radiation Dose SR IOD Template Structure

TID 10011 CT Radiation Dose

This Template defines a container (the root) with subsidiary Content Items, each of which corresponds to a single CT X-Ray irradiation event entry. There is a defined recording observer (the system or person responsible for recording the log, generally the system). Accumulated values shall be kept for a whole Study or at least a part of a Study, if the Study is divided in the workflow of the examination, or a performed procedure step. Multiple CT Radiation Dose objects may be created for one Study.

Type: Extensible
Order: Significant
Root: Yes

Table TID 10011. CT Radiation Dose

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|---|
| 1 | | | CONTAINER | EV (113701, DCM, "X-Ray Radiation Dose Report") | 1 | M | | Root node |
| 1b | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | U | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (121058, DCM, "Procedure reported") | 1 | M | | EV (P5-08000, SRT, "Computed Tomography X-Ray") |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E8, SRT, "Has Intent") | 1 | M | | DCID 3629 "Procedure Intent" |
| 4 | > | | INCLUDE | DTID 1002 "Observer Context" | 1-n | M | | |
| 5 | > | HAS OBS CONTEXT | DATETIME | EV (113809, DCM, "Start of X-Ray Irradiation") | 1 | M | | |
| 6 | > | HAS OBS CONTEXT | DATETIME | EV (113810, DCM, "End of X-Ray Irradiation") | 1 | M | | |
| 7 | > | HAS OBS CONTEXT | CODE | EV (113705, DCM, "Scope of Accumulation") | 1 | M | | DCID 10000 "Scope of Accumulation" |
| 8 | >> | HAS PROPERTIES | UIDREF | DCID 10001 "UID Types" | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|--|-----|----------|-----------|---|
| 9 | > | CONTAINS | INCLUDE | DTID 10012 "CT Accumulated Dose Data" | 1 | M | | |
| 10 | > | CONTAINS | INCLUDE | DTID 10013 "CT Irradiation Event Data" | 1-n | M | | |
| 11 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |
| 12 | > | CONTAINS | CODE | EV (113854, DCM, "Source of Dose Information") | 1-n | M | | DCID 10021 "Source of CT Dose Information" |
| 13 | > | CONTAINS | INCLUDE | DTID 1020 "Person Participant" | 1 | U | | \$PersonProcedureRole = EV (113850, DCM, "Irradiation Authorizing") |

Content Item Descriptions

| | |
|--------|--|
| Row 4 | The observer context may include both a Person Observer identification, as well as the identity of the equipment providing the values for the irradiation event (Device Observer identification), if not inherited. |
| Row 5 | Start, DateTime of the first CT Irradiation Event of the accumulation |
| Row 6 | End, DateTime of the last CT Irradiation Event of the accumulation |
| Row 12 | The primary source of information from which this dose object was constructed. |
| Row 13 | The physician responsible for determining that the irradiating procedure was appropriate for the indications. The value may come from Requesting Physician (0032,1032), Requesting Physician Identification Sequence (0032,1031) or somewhere else based on hospital policies. |

TID 10012 CT Accumulated Dose Data

This general Template provides detailed information on CT X-Ray dose value accumulations over several irradiation events from the same equipment and over the scope of accumulation specified for the report (typically a Study or a Performed Procedure Step).

Type: Extensible
Order: Significant
Root: No

Table TID 10012. CT Accumulated Dose Data

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|--|
| 1 | | | CONTAINER | EV (113811, DCM, "CT Accumulated Dose Data") | 1 | M | | |
| 2 | > | CONTAINS | NUM | EV (113812, DCM, "Total Number of Irradiation Events") | 1 | M | | UNITS = EV ({events}, UCUM, "events") |
| 3 | > | CONTAINS | NUM | EV (113813, DCM, "CT Dose Length Product Total") | 1 | M | | UNITS = EV (mGy.cm, UCUM, "mGy.cm") |
| 4 | > | CONTAINS | NUM | EV (113814, DCM, "CT Effective Dose Total") | 1 | U | | UNITS = EV (mSv, UCUM, "mSv") |
| 5 | >> | HAS PROPERTIES | TEXT | EV (121406, DCM, "Reference Authority") | 1 | MC | XOR row 6 | |
| 6 | >> | HAS PROPERTIES | CODE | EV (121406, DCM, "Reference Authority") | 1 | MC | XOR row 5 | DCID 10015 "CT Dose Reference Authorities" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|---|----|----------|--|--|
| 7 | >> | HAS CONCEPT MOD | CODE | EV (G-C036, SRT, "Measurement Method") | 1 | M | | DCID 10011 "Effective Dose Evaluation Method" |
| 8 | >> | HAS PROPERTIES | TEXT | EV (113815, DCM, "Patient Model") | 1 | MC | IF the value of row 7 equals (113800, DCM, "DLP to E conversion via MC computation") or equals (113801, DCM, "CTDI _{freeair} to E conversion via MC computation") | |
| 9 | >> | HAS PROPERTIES | CONTAINER | EV (113816, DCM, "Condition Effective Dose measured") | 1 | MC | IF the value of row 7 equals (113802, DCM, "DLP to E conversion via measurement") or equals (113803, DCM, "CTDI _{freeair} to E conversion via measurement") | |
| 10 | >>> | CONTAINS | TEXT | EV (113817, DCM, "Effective Dose Phantom Type") | 1 | M | | |
| 11 | >>> | CONTAINS | TEXT | EV (113818, DCM, "Dosimeter Type") | 1 | M | | |
| 12 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |
| 13 | > | CONTAINS | INCLUDE | DTID 1021 "Device Participant" | 1 | MC | Required if the irradiating device is not the recording device and the dose was accumulated on a single device. | \$DeviceProcedureRole = EV (113859, DCM, "Irradiating Device") |

Content Item Descriptions

| | |
|-----------|---|
| Rows 5, 6 | <p>Total Number of CT irradiation events.</p> <p>A CT irradiation event is one continuous irradiation procedure and is defined through consistent acquisition parameters.</p> <p>In the case of dose modulation the calculations are based on the effective parameters (e.g., the effective mA recorded in the Mean X-Ray Tube Current), and these acquisition parameters are consistent.</p> |
| Rows 5, 6 | <p>The Dose Length Product (DLP) is calculated for every irradiation event. The Dose Length Product Total is the sum of the DLP values. The calculation is based on the CTDI_{vol} result of each irradiation event.</p> |
| Rows 5, 6 | <p>Effective dose (E, in units of mSv) evaluated as a total over the scope is defined in Row 6 of Template TID 10011 "CT Radiation Dose".</p> <p>Effective dose is defined by the reference in Rows 5 or 6 of this Template.</p> <p>It may be calculated from a product of DLP and an 'Effective Dose Conversion Factor' (E/DLP). Or it may be calculated from a product of the Mean CTDI_{freeair} and the ratio E/CTDI_{freeair}. The ratios E/DLP or E/CTDI_{freeair} may be evaluated either from computer simulations applying Monte Carlo (MC) sampling techniques or from dosimetric measurements in an anthropomorphic phantom, e.g., the Alderson-Rando phantom.. The specific method used is identified in Rows 7 through 11.</p> |

| | |
|-----------|--|
| Row 5 - 6 | Reference of the base publication defining the Effective Dose, either as a coded value, or a textual bibliographic reference. ICRP Publications shall be referenced using their assigned coded values. |
| Row 7 | Description of the method used for Effective Dose evaluations. |
| Row 8 | Description of the reference-patient mathematical or computational model used when Effective Dose is derived via Monte Carlo simulations of radiation transport in such models. Examples of publications that specify particular reference patient models are NUREG/CR-1159, ORNL/NUREG/TM-367 (1980); NRPB-R186 (1985); GSF-Bericht S-885 (1986); Fill et al., Health Physics Vol. 86 (3): 253-272 (2004). |
| Row 9 | Description of the condition Effective Dose measured |
| Row 10 | Type of Effective Dose phantom used, e.g., Alderson-Rando |
| Row 11 | Type of dosimeter used, e.g., TLD (Thermo Luminescence Dosimeter) |
| Row 13 | The device that produced the irradiation accumulated in this Template. I.e., the CT Scanner. This is not required to be present if the information is the same as that already recorded in TID 1004 "Device Observer Identifying Attributes" encoded via the inclusion of TID 1002 "Observer Context" in TID 10011 "CT Radiation Dose" Row 4, which in turn may be absent if identical to the content in the Enhanced General Equipment Module, or if more than one device produced the accumulated irradiation. |

TID 10013 CT Irradiation Event Data

This Template conveys the dose and equipment parameters of a single irradiation event.

A CT irradiation event is the loading of X-Ray equipment caused by a single continuous actuation of the equipment's irradiation switch, from the start of the loading time of the first pulse until the loading time trailing edge of the final pulse. Any on-off switching of the radiation source during the event shall not be treated as separate events; rather the event includes the time between start and stop of radiation as triggered by the user, e.g., a single sequence of scanning comprised of multiple slices acquired with successive tube rotations and table increments shall be treated as a single irradiation event. Depending on the examination workflow and the anatomical target region the CT irradiation event data may split into multiple instances of this Template for better dose estimation. The irradiation event is the "smallest" information entity to be recorded in the realm of Radiation Dose reporting. Individual Irradiation Events are described by a set of accompanying physical parameters that are sufficient to understand the "quality" of irradiation that is being applied. This set of parameters may be different for the various types of equipment that are able to create irradiation events.

Type: Extensible
Order: Significant
Root: No

Table TID 10013. CT Irradiation Event Data

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|---|
| 1 | | | CONTAINER | EV (113819, DCM, "CT Acquisition") | 1 | M | | |
| 2 | > | CONTAINS | TEXT | EV (125203, DCM, "Acquisition Protocol") | 1 | U | | |
| 3 | > | CONTAINS | CODE | EV (123014, DCM, "Target Region") | 1 | M | | DCID 4030 "CT, MR and PET Anatomy Imaged" |
| 4 | > | CONTAINS | CODE | EV (113820, DCM, "CT Acquisition Type") | 1 | M | | DCID 10013 "CT Acquisition Type" |
| 4b | >> | CONTAINS | CODE | EV (113961, DCM, "Reconstruction Algorithm") | 1-n | U | | DCID 10033 "CT Reconstruction Algorithm" |
| 5 | > | CONTAINS | CODE | EV (G-C32C, SRT, "Procedure Context") | 1 | U | | DCID 10014 "Contrast Imaging Technique" |
| 6 | > | CONTAINS | UIDREF | EV (113769, DCM, "Irradiation Event UID") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|--|-----|----------|--|---|
| 6b | > | CONTAINS | TEXT | EV (113605, DCM, "Irradiation Event Label") | 1 | U | | |
| 6c | >> | HAS CONCEPT MOD | CODE | EV (113606, DCM, "Label Type") | 1 | MC | IF the value of Row 6b is the value of an Attribute in the images. | DCID 10022 "Label Types" |
| 6d | > | CONTAINS | CODE | EV (128551, DCM, "Is Repeated Acquisition") | 1 | U | | DCID 230 "Yes-No" |
| 6e | >> | HAS CONCEPT MOD | CODE | EV (128552, DCM, "Reason for Repeating Acquisition") | 1 | M | | DCID 10034 "Reason for Repeating Acquisition" |
| 7 | > | CONTAINS | CONTAINER | EV (113822, DCM, "CT Acquisition Parameters") | 1 | M | | |
| 8 | >> | CONTAINS | NUM | EV (113824, DCM, "Exposure Time") | 1 | M | | UNITS = EV (s, UCUM, "s") |
| 9 | >> | CONTAINS | INCLUDE | DTID 10014 "Scanning Length" | 1 | M | | |
| 10 | >> | CONTAINS | NUM | EV (113826, DCM, "Nominal Single Collimation Width") | 1 | M | | UNITS = EV (mm, UCUM, "mm") |
| 11 | >> | CONTAINS | NUM | EV (113827, DCM, "Nominal Total Collimation Width") | 1 | M | | UNITS = EV (mm, UCUM, "mm") |
| 12 | >> | CONTAINS | NUM | EV (113828, DCM, "Pitch Factor") | 1 | MC | IF row 4 equals (P5-08001, SRT, "Spiral Acquisition") or equals (113804, DCM, "Sequenced Acquisition") | UNITS = EV ({ratio}, UCUM, "ratio") |
| 13 | >> | CONTAINS | NUM | EV (113823, DCM, "Number of X-Ray Sources") | 1 | M | | UNITS = EV ({X-Ray sources}, UCUM, "X-Ray sources") |
| 14 | >> | CONTAINS | CONTAINER | EV (113831, DCM, "CT X-Ray Source Parameters") | 1-n | M | | |
| 15 | >>> | CONTAINS | TEXT | EV (113832, DCM, "Identification of the X-Ray Source") | 1 | M | | |
| 16 | >>> | CONTAINS | NUM | EV (113733, DCM, "KVP") | 1 | M | | UNITS = EV (kV, UCUM, "kV") |
| 17 | >>> | CONTAINS | NUM | EV (113833, DCM, "Maximum X-Ray Tube Current") | 1 | M | | UNITS = EV (mA, UCUM, "mA") |
| 18 | >>> | CONTAINS | NUM | EV (113734, DCM, "X-Ray Tube Current") | 1 | M | | UNITS = EV (mA, UCUM, "mA") |
| 19 | >>> | CONTAINS | NUM | EV (113834, DCM, "Exposure Time per Rotation") | 1 | MC | IF row 4 does not equal (113805, DCM, "Constant Angle Acquisition") | UNITS = EV (s, UCUM, "s") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|------|-----------------|-----------|--|-----|----------|--|--|
| 20 | >>> | CONTAINS | NUM | EV (113821, DCM, "X-Ray Filter Aluminum Equivalent") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 21 | > | CONTAINS | CONTAINER | EV (113829, DCM, "CT Dose") | 1 | MC | IF row 4 does not equal (113805, DCM, "Constant Angle Acquisition") | |
| 22 | >> | CONTAINS | NUM | EV (113830, DCM, "Mean CTDIvol") | 1 | M | | UNITS = EV (mGy, UCUM, "mGy") |
| 23 | >> | CONTAINS | CODE | EV (113835, DCM, "CTDIw Phantom Type") | 1 | M | | DCID 4052 "Phantom Devices" |
| 24 | >> | CONTAINS | NUM | EV (113836, DCM, "CTDIfreeair Calculation Factor") | 1 | U | | UNITS = EV (mGy/mA.s, UCUM, "mGy/mA.s") |
| 25 | >> | CONTAINS | NUM | EV (113837, DCM, "Mean CTDIfreeair") | 1 | U | | UNITS = EV (mGy, UCUM, "mGy") |
| 26 | >> | CONTAINS | NUM | EV (113838, DCM, "DLP") | 1 | M | | UNITS = EV (mGy.cm, UCUM, "mGy.cm") |
| 27 | >> | CONTAINS | NUM | EV (113839, DCM, "Effective Dose") | 1 | U | | UNITS = EV (mSv, UCUM, "mSv") |
| 28 | >>> | HAS CONCEPT MOD | CODE | EV (G-C036, SRT, "Measurement Method") | 1 | MC | IF row 27 is present | DCID 10011 "Effective Dose Evaluation Method" |
| 29 | >>>> | HAS PROPERTIES | NUM | EV (113840, DCM, "Effective Dose Conversion Factor") | 1 | MC | IF row 28 is present and equals (113800, DCM, "DLP to E conversion via MC computation") or equals (113802, DCM, "DLP to E conversion via measurement") | UNITS = EV (mSv/mGy.cm, UCUM, "mSv/mGy.cm") |
| 30 | >> | CONTAINS | NUM | EV (113930, DCM, "Size Specific Dose Estimation") | 1-n | U | | UNITS = EV (mGy, UCUM, "mGy") |
| 31 | >>> | HAS CONCEPT MOD | CODE | EV (G-C036, SRT, "Measurement Method") | 1 | M | | DCID 10023 "Size Specific Dose Estimation Method for CT" |
| 32 | >>>> | INFERRED FROM | NUM | EV (113931, DCM, "Measured Lateral Dimension") | 1 | MC | IF row 31 equals (113934, DCM, "AAPM 204 Lateral Dimension") or (113936, DCM, "AAPM 204 Sum of Lateral and AP Dimension") | UNITS = EV (mm, UCUM, "mm") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|-----|-------|-----------------|--------|--|-----|----------|---|---|
| 33 | >>>> | INFERRED FROM | NUM | EV (113932, DCM, "Measured AP Dimension") | 1 | MC | IF row 31 equals (113935, DCM, "AAPM 204 AP Dimension") or (113936, DCM, "AAPM 204 Sum of Lateral and AP Dimension") | UNITS = EV (mm, UCUM, "mm") |
| 34 | >>>> | INFERRED FROM | NUM | EV (113933, DCM, "Derived Effective Diameter") | 1 | MC | IF row 31 equals (113934, DCM, "AAPM 204 Lateral Dimension") or (113935, DCM, "AAPM 204 AP Dimension") or (113936, DCM, "AAPM 204 Sum of Lateral and AP Dimension") or (113937, DCM, "AAPM 204 Effective Diameter Estimated From Patient Age") | UNITS = EV (mm, UCUM, "mm") |
| 34b | >>>> | INFERRED FROM | NUM | EV (113980, DCM, "Water Equivalent Diameter") | 1 | MC | IF row 31 equals (113981, DCM, "Water Equivalent Diameter Representative Value") | UNITS = EV (mm, UCUM, "mm") |
| 34c | >>>>> | HAS CONCEPT MOD | CODE | EV EV (G-C036, SRT, "Measurement Method") | 1 | M | | DCID 10024 "Water Equivalent Diameter Method" |
| 34d | >>>> | INFERRED FROM | UIDREF | EV (113985, DCM, "Series or Instance used for Water Equivalent Diameter estimation") | 1-n | MC | IF row 31 equals (113982, DCM, "Water Equivalent Diameter Integrated Across Scan Range") or (113984, DCM, "Water Equivalent Diameter From Localizer") or (row 31 equals (113983, DCM, "Water Equivalent Diameter From Raw Data") and the Raw Data is encoded in DICOM). | |
| 34e | >>>> | INFERRED FROM | NUM | EV (113986, DCM, "Z value of location of Water Equivalent Diameter estimation") | 1 | MC | IF row 31 equals (113981, DCM, "Water Equivalent Diameter Representative Value") | UNITS = EV (mm, UCUM, "mm") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|---------|---|-----|----------|---|---|
| 35 | >> | CONTAINS | INCLUDE | DTID 10015 "CT Dose Check Details" | 1 | M | | |
| 36 | > | CONTAINS | TEXT | EV (113842, DCM, "X-Ray Modulation Type") | 1 | U | | |
| 37 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |
| 38 | > | CONTAINS | INCLUDE | DTID 1020 "Person Participant" | 1-n | U | | \$PersonProcedureRole = EV (113851, DCM, "Irradiation Administering") |
| 39 | > | CONTAINS | INCLUDE | DTID 1021 "Device Participant" | 1 | MC | Required if the irradiating device is not the recording device. | \$DeviceProcedureRole = EV (113859, DCM, "Irradiating Device") |

Content Item Descriptions

| | |
|------------|--|
| Row 2 | User-defined type of clinical acquisition protocol for creating images or image-derived measurements. May be taken from Protocol Name (0018,1030) or from Performed Procedure Step Description (0040,0254). |
| Row 3 | The target region is the anatomy exposed. |
| Row 4 | Description of the method used during acquisition of this CT irradiation event, may be derived from Acquisition Type (0018,9302). |
| Row 4b | Though not a characteristic of the acquisition per se, the type of reconstruction intended has a bearing on the technique used. If multiple types of reconstruction are performed, multiple values can be listed. These values should correspond to the values of Reconstruction Algorithm (0018,9315) in the reconstructed images. |
| Row 5 | The acquisition was performed with or without contrast medium application. |
| Row 6d, 6e | If an acquisition is a repeat because an earlier acquisition was unsatisfactory, this may be recorded along with a coded reason. This is intended to help with subsequent analysis by providing a priori information about why the study might be flagged as an outlier with higher dose exposure values than usual for the type of study. |
| Row 8 | Total time the patient has received X-Ray exposure during the irradiation event. |
| Row 10 | The value of the nominal width (referenced to the location of the isocenter along the z axis) of a single collimated slice in mm. |
| Row 11 | The value of the nominal width (referenced to the location of the isocenter along the z axis) of the nominal total collimation in mm over the area of active X-Ray detection (z-coverage). |
| Row 12 | Pitch Factor: For Spiral Acquisition, the Pitch Factor is the ratio of the Table Feed per Rotation to the Nominal Total Collimation Width. For Sequenced Acquisition, the Pitch Factor is the ratio of the Table Feed per single sequenced scan to the Nominal Total Collimation Width. |
| Row 14 | CT X-Ray source parameters related to the acquisition. For each X-Ray source an item must be present. For multi-energy acquisitions, multiple items may be present for each X-Ray source, each item describing one energy level. |
| Row 15 | Identification of the X-Ray source. Identifies the particular X-Ray source (in a multi-source CT system) for which the set of X-Ray source parameter values is reported. |
| Row 16 | KVP value as measured/recorded by system. |
| Row 18 | Mean tube current as measured/recorded by system. |
| Row 19 | Exposure time as measured/recorded by the system per rotation. |
| Row 20 | Thickness of an equivalent filter constructed from aluminum, in case of multi-source CT systems AND if Row 4 is not present |
| Row 21 | CT Dose for one acquisition |

| | |
|-----------|---|
| Rows 5, 6 | <p>"Mean CTDI_{vol}" refers to the average value of the CTDI_{vol} applied within this acquisition.</p> <p>CTDI_{vol} is the volume CTDI_w, where CTDI_w is the weighted computed tomography dose index 100 as defined in IEC 60601-2-44.</p> <p>For Sequenced and Spiral scanning, CTDI_{vol} = CTDI_w / Pitch Factor.</p> <p>For Stationary and Free scanning, CTDI_{vol} = CTDI_w × Cumulative Exposure Time / Exposure Time Per Rotation.</p> <p>According to IEC 60601-2-44 Ed 3 for Constant Angle Acquisition may be calculated as CTDI_{vol} = (CTDI_w / Current Time Product (mAs)) × X-Ray Tube Current (mA) × (Nominal Total Collimation Width (mm) / Table Speed (mm/s)).</p> <p>Note</p> <p>The ratio CTDI_w / Current Time Product is evaluated independently of the Constant Angle Acquisition but with the same settings of tube voltage and Total Collimation Width as those of the Constant Angle Acquisition.</p> <p>See also CTDI_{vol} (0018,9345) and Spiral Pitch Factor (0018,9311) in the "Enhanced Computed Tomography Image IOD" in PS3.3.</p> |
| Row 23 | The type of phantom used for CTDI measurement according to IEC 60601-2-44(e.g., Head 16 cm diameter PMMA, Body 32 cm diameter PMMA). |
| Rows 5, 6 | The CTDI _{free air} Calculation Factor is the CTDI _{free air} per mAs, expressed in units of mGy/mAs. The CTDI _{free air} Calculation Factor may be used in one method calculating Dose. For example, for this acquisition, Effective Dose = Mean X-Ray Tube Current × Cumulative Exposure Time × CTDI _{free air} Calculation Factor × (Effective Dose / CTDI _{free air}). |
| Rows 5, 6 | MeanCTDI _{free air} is the mean CTDI for this acquisition, evaluated free-in-air according to IEC 60601-2-44. MeanCTDI _{free air} = Mean X-Ray Tube Current × Cumulative Exposure Time × CTDI _{free air} Calculation Factor. The CTDI _{free air} may be used in one method of calculating Effective Dose. |
| Rows 5, 6 | For Spiral scanning, DLP = CTDI _{vol} × Scanning Length. For Sequenced scanning, DLP = CTDI _{vol} × Nominal Total Collimation Width × Cumulative Exposure Time / Exposure Time per Rotation. For Stationary and Free scanning, DLP = CTDI _{vol} × Nominal Total Collimation Width (according to IEC 60601-2-44). |
| Row 27 | Effective Dose in mSv of the single continuous time-frame of the irradiation computed as described in TID 10012 "CT Accumulated Dose Data". |
| Row 29 | The Effective Dose Conversion Factor is the ratio of the Effective Dose to the DLP, expressed in units of mSv/mGy.cm, and it is used as a factor in one method of estimating Effective Dose. Monte Carlo Simulations (or dosimetric measurements in an anthropomorphic phantom, e.g., the Alderson-Rando phantom) may be used as a basis for the evaluation of Effective Dose Conversion Factors. |
| Row 30 | More than one Size Specific Dose Estimation may be included, for example if different computation methods are used. |
| Row 31 | <p>The methods of [AAPM Report 204] are listed in CID 10023 "Size Specific Dose Estimation Method for CT"; other methods may be used.</p> <p>The phantom size (16cm or 32cm) used for the calculation is available from the phantom type defined in Row 23.</p> |
| Row 32 | The condition specifies inclusion of the Measured Lateral Dimension if it was used in the calculation. |
| Row 33 | The condition specifies inclusion of the Measured AP Dimension if it was used in the calculation. |
| Row 34 | The Derived Effective Diameter is conditionally included, whether it was derived from measurements or estimated from age, but may not be used for other (non-AAPM Report 204) methods. |
| Row 34b | A single value for Water Equivalent Diameter is encoded in Row 34b if the method uses a single value. It is required if the method uses a representative slice, but may also be present if the method used a Localizer or Raw Data at a single location rather than the entire scan range. |

| | |
|---------|---|
| Row 34c | The modifier is intended to specify the family of methods and not the specific technique (e.g., for AAPM 220 (113987, DCM, "AAPM 220") is used, not (113981, DCM, "Water Equivalent Diameter Representative Value"), etc.). |
| Row 34d | <p>If the method uses multiple slices across the scan range, the reconstructed image Series or (list of) Instances used is referenced; the values for Water Equivalent Diameter may or may not be recorded in the CT Image Module or CT Exposure Macro of those images. More than one Series may be referenced if the reconstructed images for this acquisition used for Water Equivalent Diameter estimation span multiple series.</p> <p>If the Water Equivalent Diameter was computed from raw views rather than reconstructed images, then the Raw Data is referenced, if it was encoded in DICOM (it is not required to be).</p> |
| Row 34e | This location is patient (not table or gantry) relative, to allow it to be defined in the Patient Coordinate System and hence related to the Image Position (Patient) in the reconstructed images (see TID 10014 "Scanning Length", included at Row 9). It is required if the method uses a representative slice, but may also be present if the method used a Localizer or Raw Data at a single location rather than the entire scan range. |
| Row 35 | Record of details associated with using the NEMA Dose Check Standard (NEMA XR-25-2010). |
| Row 36 | The type of exposure modulation. May use the value of Exposure Modulation Type (0018,9323) from CT Exposure Macro or from CT Image Module. |
| Row 38 | People responsible for the administration of the radiation reported in the irradiation event. May include values that would appear in Performing Physicians' Name (0008,1050), Performing Physician Identification Sequence (0008,1052), Operators' Name (0008,1070) and/or Operator Identification Sequence (0008,1072). |
| Row 39 | The device that produced the irradiation in this Irradiation Event. I.e., the CT scanner. This is not required to be present if the information is the same as that already recorded in the TID 1004 "Device Observer Identifying Attributes" encoded via the inclusion of TID 1002 "Observer Context" in TID 10011 "CT Radiation Dose" Row 4, which in turn may be absent if identical to the content in the Enhanced General Equipment Module. |

TID 10014 Scanning Length

Type: Extensible
Order: Significant
Root: No

Table TID 10014. Scanning Length

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----|---|----|----------|--|-----------------------------|
| 1 | | | NUM | EV (113825, DCM, "Scanning Length") | 1 | M | | UNITS = EV (mm, UCUM, "mm") |
| 2 | | | NUM | EV (113893, DCM, "Length of Reconstructable Volume") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 3 | | | NUM | EV (113899, DCM, "Exposed Range") | 1 | UC | IFF TID 10013 "CT Irradiation Event Data" row 4 CT Acquisition Type equals (P5-08001, SRT, "Spiral Acquisition") | UNITS = EV (mm, UCUM, "mm") |
| 4 | | | NUM | EV (113895, DCM, "Top Z Location of Reconstructable Volume") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 5 | | | NUM | EV (113896, DCM, "Bottom Z Location of Reconstructable Volume") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 6 | | | NUM | EV (113897, DCM, "Top Z Location of Scanning Length") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|--------|--|----|----------|---|---|
| 7 | | | NUM | EV (113898, DCM, "Bottom Z Location of Scanning Length") | 1 | U | | UNITS = EV (mm, UCUM, "mm") |
| 8 | | | UIDREF | EV (112227, DCM, "Frame of Reference UID") | 1 | MC | IF any of Rows 4 through 7 or Row 34e of TID 10013 are present. | If present, shall be the same UID as in the images reconstructed from this irradiation event. |

Content Item Descriptions

| | |
|----------|--|
| Row 1 | <p>For Spiral scanning, the scanning length is normally the table travel in mm during the tube loading (see Figure A-16).</p> <p>For Sequenced scanning, the scanning length is the table travel between consecutive scans times the number of scans.</p> <p>For Stationary and Free scanning, the scanning length is the nominal width of the total collimation.</p> |
| Row 2 | <p>The length of the reconstructable volume is the maximum z-range between the outermost edges of the top and bottom slices that can be reconstructed from the acquisition.</p> <p>For Spiral scanning, the length of reconstructable volume is the z-range between the outermost beginning of the first reconstructable slice and the outermost end of the last reconstructable slice (see Figure A-16).</p> <p>For Sequenced scanning, the length of reconstructable volume is the z-range between the outermost beginning of the first slice and the outermost end of the last slice (i.e., including any skip).</p> <p>For Stationary and Free scanning, the length of reconstructable volume is the nominal width of the total collimation.</p> |
| Row 3 | <p>For Spiral scanning, the exposed range is as defined in IEC 60601-2-44 (Ed. 3) 302.115(b) (see Figure A-16).</p> <p>Exposed range is not defined for other modes of scanning.</p> |
| Rows 4-5 | <p>The Top and Bottom Z Locations of the Reconstructable Volume are independent of the slice width of any actual reconstructed slices. They are measured from the edges of the volume, and hence are not equal to the Z locations encoded in the images of any actual reconstructed slices, which are recorded as the center of the slice.</p> |
| Rows 4-7 | <p>These locations are patient (not table or gantry) relative, to allow them to be defined in the Patient Coordinate System and hence related to the Image Position (Patient) in the reconstructed images. They are also defined in terms of the top (towards the patient's head), and bottom (towards the patient's feet) of the corresponding ranges, in order to make them independent of whether the scan starts at the top or the bottom or shuttles back and forth in between (see Figure A-16).</p> |

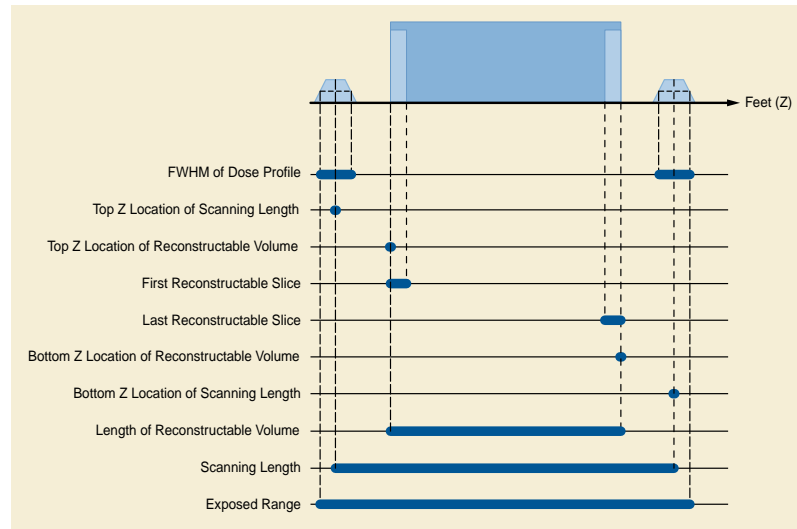


Figure A-16. Spiral Acquisition Parameters

TID 10015 CT Dose Check Details

This Template records details related to the use of the NEMA Dose Check Standard (NEMA XR-25-2010).

Type: Extensible
Order: Significant
Root: No

Table TID 10015. CT Dose Check Details

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|---|-------------------------------------|
| 1 | | | CONTAINER | EV (113900, DCM, "Dose Check Alert Details") | 1 | MC | IF the scanning device has implemented dose alerts | |
| 2 | > | CONTAINS | CODE | EV (113901, DCM, "DLP Alert Value Configured") | 1 | M | | DCID 230 "Yes-No" |
| 3 | > | CONTAINS | CODE | EV (113902, DCM, "CTDIvol Alert Value Configured") | 1 | M | | DCID 230 "Yes-No" |
| 4 | > | CONTAINS | NUM | EV (113903, DCM, "DLP Alert Value") | 1 | MC | IFF value of Row 2 is (R-0038D, SRT, "Yes") | UNITS = EV (mGy.cm, UCUM, "mGy.cm") |
| 5 | > | CONTAINS | NUM | EV (113904, DCM, "CTDIvol Alert Value") | 1 | MC | IFF value of Row 3 is (R-0038D, SRT, "Yes") | UNITS = EV (mGy, UCUM, "mGy") |
| 6 | > | CONTAINS | NUM | EV (113905, DCM, "Accumulated DLP Forward Estimate") | 1 | MC | IF Accumulated DLP Forward Estimate (Row 6) exceeds DLP Alert Value (Row 4) | UNITS = EV (mGy.cm, UCUM, "mGy.cm") |
| 7 | > | CONTAINS | NUM | EV (113906, DCM, "Accumulated CTDIvol Forward Estimate") | 1 | MC | IF Accumulated CTDIvol Forward Estimate (Row 7) exceeds CTDIvol Alert Value (Row 5) | UNITS = EV (mGy, UCUM, "mGy") |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|----|----------|--|---|
| 8 | > | CONTAINS | TEXT | EV (113907, DCM, "Reason for Proceeding") | 1 | UC | IFF Accumulated DLP Forward Estimate (Row 6) exceeds DLP Alert Value (Row 4) or Accumulated CTDLvol Forward Estimate (Row 7) exceeds CTDLvol Alert Value (Row 5) | |
| 9 | > | CONTAINS | INCLUDE | DTID 1020 "Person Participant" | 1 | MC | IF Accumulated DLP Forward Estimate (Row 6) exceeds DLP Alert Value (Row 4) or Accumulated CTDLvol Forward Estimate (Row 7) exceeds CTDLvol Alert Value (Row 5) | \$PersonProcedureRole = EV (113850, DCM, "Irradiation Authorizing") |
| 10 | | | CONTAINER | EV (113908, DCM, "Dose Check Notification Details") | 1 | MC | IF the scanning device has implemented dose notifications | |
| 11 | > | CONTAINS | CODE | EV (113909, DCM, "DLP Notification Value Configured") | 1 | M | | DCID 230 "Yes-No" |
| 12 | > | CONTAINS | CODE | EV (113910, DCM, "CTDLvol Notification Value Configured") | 1 | M | | DCID 230 "Yes-No" |
| 13 | > | CONTAINS | NUM | EV (113911, DCM, "DLP Notification Value") | 1 | MC | IFF value of Row 11 is (R-0038D, SRT, "Yes") | UNITS = EV (mGy.cm, UCUM, "mGy.cm") |
| 14 | > | CONTAINS | NUM | EV (113912, DCM, "CTDLvol Notification Value") | 1 | MC | IFF value of Row 12 is (R-0038D, SRT, "Yes") | UNITS = EV (mGy, UCUM, "mGy") |
| 15 | > | CONTAINS | NUM | EV (113913, DCM, "DLP Forward Estimate") | 1 | MC | IF DLP Forward Estimate (Row 15) exceeds DLP Notification Value (Row 13) | UNITS = EV (mGy.cm, UCUM, "mGy.cm") |
| 16 | > | CONTAINS | NUM | EV (113914, DCM, "CTDLvol Forward Estimate") | 1 | MC | IF CTDLvol Forward Estimate (Row 16) exceeds CTDLvol Notification Value (Row 14) | UNITS = EV (mGy, UCUM, "mGy") |
| 17 | > | CONTAINS | TEXT | EV (113907, DCM, "Reason for Proceeding") | 1 | UC | IFF DLP Forward Estimate (Row 15) exceeds DLP Notification Value (Row 13) or CTDLvol Forward Estimate (Row 16) exceeds CTDLvol Notification Value (Row 14) | |
| 18 | > | CONTAINS | INCLUDE | DTID 1020 "Person Participant" | 1 | UC | IFF DLP Forward Estimate (Row 15) exceeds DLP Notification Value (Row 13) or CTDLvol Forward Estimate (Row 16) exceeds CTDLvol Notification Value (Row 14) | \$PersonProcedureRole = EV (113850, DCM, "Irradiation Authorizing") |

Content Item Descriptions

| | |
|-------|---|
| Row 1 | Container for Dose Check Alert details. |
|-------|---|

| | |
|--------|--|
| Row 2 | Indicates whether a DLP Alert Value was configured (e.g., by the institution) for the exam to which this irradiation event belongs. |
| Row 3 | Indicates whether a CTDIvol Alert Value was configured (e.g., by the institution) for the exam to which this irradiation event belongs. |
| Row 4 | The configured value applicable to the current exam that would trigger an alert if the accumulated DLP were projected to exceed it. |
| Row 5 | The configured value applicable to the current exam that would trigger an alert if the Accumulated CTDIvol at any given location were projected to exceed it. |
| Row 6 | The value estimated prior to performing this irradiation event of the projected DLP accumulated during this exam, including this irradiation event. The estimate may include assumptions such as those described in NEMA XR 25-2010. |
| Row 7 | The value estimated prior to performing this irradiation event of the projected CTDIvol accumulated during this exam, including this irradiation event. The value is for the location with the highest estimated accumulation. The actual location is not recorded. The estimate may include assumptions such as those described in NEMA XR 25-2010. |
| Row 8 | The reason provided by the operator for proceeding with an irradiation event projected to exceed an alert value. |
| Row 9 | Person responsible for authorizing irradiation projected to exceed an alert value. |
| Row 10 | Container for Dose Check Notification details. |
| Row 11 | Indicates whether a DLP Notification Value was configured (e.g., by the institution) for the Protocol Element Group to which this irradiation event corresponds. |
| Row 12 | Indicates whether a CTDIvol Notification Value was configured (e.g., by the institution) for the Protocol Element Group to which this irradiation event corresponds. |
| Row 13 | The configured value applicable to the current irradiation event that would trigger a notification if the DLP were projected to exceed it. |
| Row 14 | The configured value applicable to the current irradiation event that would trigger a notification if the CTDIvol were projected to exceed it. |
| Row 15 | The value estimated prior to performing this irradiation event of the DLP for this irradiation event. The estimate may include assumptions such as those described in NEMA XR 25-2010. |
| Row 16 | The value estimated prior to performing this irradiation event of the CTDIvol for this irradiation event. The value is for the location with the highest estimated value. The actual location is not recorded. The estimate may include assumptions such as those described in NEMA XR 25-2010. |
| Row 17 | The reason provided by the operator for proceeding with an irradiation event projected to exceed a notification value. |
| Row 18 | Person responsible for authorizing irradiation projected to exceed a notification value. |

Radiopharmaceutical Radiation Dose SR IOD Templates

The Templates that comprise the Radiopharmaceutical Radiation Dose SR are interconnected as in Figure A-17.

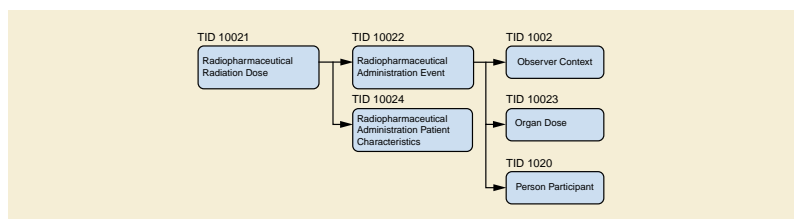


Figure A-17. Radiopharmaceutical Radiation Dose SR IOD Template Structure

TID 10021 Radiopharmaceutical Radiation Dose

This Template defines a container (the root) with subsidiary Content Items, each of which corresponds to a single Radiopharmaceutical Administration Dose event entry. There is a defined recording observer (the system and/or person responsible for recording the assay of the radiopharmaceutical, and the person administered the radiopharmaceutical). Multiple Radiopharmaceutical Radiation Dose objects may be created for one study. Radiopharmaceutical Start DateTime in TID 10022 "Radiopharmaceutical Administration Event Data" will convey the order of administrations.

Type: Extensible
Order: Significant
Root: Yes

Table TID 10021. Radiopharmaceutical Radiation Dose

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|---|----|----------|-----------|-------------------------------|
| 1 | | | CONTAINER | EV (113500, DCM, "Radiopharmaceutical Radiation Dose Report") | 1 | M | | Root node |
| 1b | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | U | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C2D0, SRT, "Associated Procedure") | 1 | M | | DCID 3108 "NM/PET Procedures" |
| 3 | >> | HAS CONCEPT MOD | CODE | EV (G-C0E8, SRT, "Has Intent") | 1 | M | | DCID 3629 "Procedure Intent" |
| 4 | > | CONTAINS | INCLUDE | DTID 10022 "Radiopharmaceutical Administration Event Data" | 1 | M | | |
| 5 | > | CONTAINS | INCLUDE | DTID 10024 "Radiopharmaceutical Administration Patient Characteristics" | 1 | U | | |
| 6 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

Content Item Descriptions

| | |
|-------|---|
| Row 2 | The associated procedure is the procedure performed, or if no procedure was performed the procedure that was ordered. |
|-------|---|

TID 10022 Radiopharmaceutical Administration Event Data

The Radiopharmaceutical Administration Event conveys the dose and assay and time information of a single radiopharmaceutical event. A Radiopharmaceutical Administration event is one radioactive pharmaceutical administered to a patient.

Type: Extensible
Order: Significant
Root: No

Table TID 10022. Radiopharmaceutical Administration Event Data

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (113502, DCM, "Radiopharmaceutical Administration") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|----------|--|-----|----------|-----------|--|
| 2 | > | CONTAINS | CODE | EV (F-61FDB, SRT, "Radiopharmaceutical agent") | 1 | M | | DCID 25 "Radiopharmaceuticals" DCID 4021 "PET Radiopharmaceutical" |
| 3 | >> | HAS PROPERTIES | CODE | EV (C-10072, SRT, "Radionuclide") | 1 | M | | DCID 18 "Isotopes in Radiopharmaceuticals" DCID 4020 "PET Radionuclide" |
| 4 | >> | HAS PROPERTIES | NUM | EV (R-42806, SRT, "Radionuclide Half Life") | 1 | M | | UNITS = EV (s, UCUM, "seconds") |
| 5 | > | CONTAINS | NUM | EV (123007, DCM, "Radiopharmaceutical Specific Activity") | 1 | U | | UNITS = EV (Bq/mmol, UCUM, "Bq/mmol") |
| 6 | > | CONTAINS | UIDREF | EV (113503, DCM, "Radiopharmaceutical Administration Event UID") | 1 | M | | |
| 7 | > | CONTAINS | CODE | EV (113505, DCM, "Intravenous Extravasation Symptoms") | 1-n | U | | DCID 10043 "Intravenous Extravasation Symptoms" |
| 8 | > | CONTAINS | NUM | EV (113506, DCM, "Estimated Extravasation Activity") | 1 | U | | UNITS = EV(%, UCUM, "percent") |
| 9 | > | CONTAINS | DATETIME | EV (123003, DCM, "Radiopharmaceutical Start DateTime") | 1 | M | | |
| 10 | > | CONTAINS | DATETIME | EV (123004, DCM, "Radiopharmaceutical Stop DateTime") | 1 | U | | |
| 11 | > | CONTAINS | NUM | EV (113507, DCM, "Administered activity") | 1 | M | | UNITS = EV (MBq, UCUM, "MBq") |
| 12 | > | CONTAINS | NUM | EV (123005, DCM, "Radiopharmaceutical Volume") | 1 | U | | UNITS = EV (cm3, UCUM, "cm3") |
| 13 | > | CONTAINS | NUM | EV (113508, DCM, "Pre-Administration Measured Activity") | 1 | U | | UNITS = EV (MBq, UCUM, "MBq") |
| 14 | >> | HAS OBS CONTEXT | CODE | EV (113540, DCM, "Activity Measurement Device") | 1 | U | | DCID 10041 "Source of Radioisotope Activity Information" |
| 15 | >> | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | U | | |
| 16 | > | CONTAINS | NUM | EV (113509, DCM, "Post-Administration Measured Activity") | 1 | U | | UNITS = EV (MBq, UCUM, "MBq") |
| 17 | >> | HAS OBS CONTEXT | CODE | EV (113540, DCM, "Activity Measurement Device") | 1 | U | | DCID 10041 "Source of Radioisotope Activity Information" |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|---------|--|-----|----------|---|---|
| 18 | >> | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | U | | |
| 19 | > | CONTAINS | INCLUDE | DTID 10023 "Organ Dose" | 1-n | U | | |
| 20 | > | CONTAINS | CODE | EV (G-C340, SRT, "Route of administration") | 1 | M | | BCID 11 "Route of Administration" |
| 21 | >> | HAS PROPERTIES | CODE | EV (G-C581, SRT, "Site of") | 1 | MC | IF Row 20 equals (G-D101, SRT, "Intravenous route") or (G-D103, SRT, "Intramuscular route") | DCID 3746 "Percutaneous Entry Site" |
| 22 | >>> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | MC | IF Row 21 has laterality | DCID 244 "Laterality" |
| 23 | > | CONTAINS | INCLUDE | DTID 1020 "Person Participant" | 1-n | M | | \$PersonProcedureRole = EV (113851, DCM, "Irradiation Administering") |
| 24 | > | CONTAINS | CODE | EV (121147, DCM, "Billing Code(s) ") | 1-n | U | | |
| 25 | > | CONTAINS | CODE | EV (113510, DCM, "Drug Product Identifier") | 1-n | U | | |
| 26 | > | CONTAINS | TEXT | EV (111529, DCM, "Brand Name") | 1 | U | | |
| 27 | > | CONTAINS | TEXT | EV (113511, DCM, "Radiopharmaceutical Dispense Unit Identifier") | 1 | U | | |
| 28 | >> | CONTAINS | TEXT | EV (113512, DCM, "Radiopharmaceutical Lot Identifier") | 1-n | U | | |
| 29 | >> | CONTAINS | TEXT | EV (113513, DCM, "Reagent Vial Identifier") | 1-n | U | | |
| 30 | >> | CONTAINS | TEXT | EV (113514, DCM, "Radionuclide Identifier") | 1-n | U | | |
| 31 | > | CONTAINS | TEXT | EV (113516, DCM, "Prescription Identifier") | 1 | U | | |
| 32 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

Content Item Descriptions

| | |
|-------|---|
| Row 4 | The value of Half-life that was used for computing the decay of the administered radiopharmaceutical. It is not intended for use by the receiver for any further computation. |
| Row 5 | Activity per unit mass of the radiopharmaceutical at Radiopharmaceutical Start Time |
| Row 6 | Unique identification of a single radiopharmaceutical administration event. |
| Row 8 | The estimated percentage of administered activity lost at the injection site. The estimation includes extravasation, paravenous administration and leakage at the injection site. |
| Row 9 | The time the radiopharmaceutical was administered to the patient for imaging purposes. |

| | |
|-------------|--|
| Row 11 | Total amount of radioactivity administered to the patient at Radiopharmaceutical Start Time. It is a computed field from the TID 10022 Pre-Administration Measured Activity Row 13, TID 10022 Post-Administration Measured Activity Row 17, Radionuclide Half Life Row 4 and Radiopharmaceutical Start Time Row 9. Does not include estimated extravasation activity. |
| Rows 13, 16 | Observation DateTime (0040,A032) shall be used to record when the measurement was taken. |
| Row 23 | Identifies the person administering the product. |
| Row 24 | The billing codes for the preparation and administration of the radiopharmaceutical. It does not include performance and interpretation of the imaging. |
| Row 25 | Registered drug establishment code for the product. A coding scheme example is NDC, WHO-DDE or RxNorm. Multiple entries can be used for equivalent drug product codes. |
| Row 27 | The human readable identification of the specific radiopharmaceutical quantity (dose) administered to the patient. |
| Row 28 | Identifies the vial, batch or lot number from which the individual radiopharmaceutical quantity (dose) was produced. Row 27 the Radiopharmaceutical Identifier records the identification for each individual dose. |
| Row 29 | Identifies the lot or unit serial number for the reagent component for the radiopharmaceutical identified in row 27. |
| Row 30 | Identifies the lot or unit serial number for the radionuclide component for the radiopharmaceutical identified in row 27. |

TID 10023 Organ Dose

This Template conveys the information about the dose to a single organ.

Type: Extensible
Order: Significant
Root: No

Table TID 10023. Organ Dose

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|----------------------------|---|
| 1 | | | CONTAINER | EV (113517, DCM, "Organ Dose Information") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | CODE | EV (G-C0E3, SRT, "Finding Site") | 1 | M | | DCID 10044 "Radiosensitive Organs" |
| 3 | > | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | MC | IFF anatomy has laterality | DCID 244 "Laterality" |
| 4 | > | CONTAINS | NUM | EV (G-D701, SRT, "Mass") | 1 | U | | UNITS = EV (g, UCUM, "grams") |
| 5 | >> | HAS CONCEPT MOD | TEXT | EV (G-C036, SRT, "Measurement Method") | 1 | M | | |
| 6 | > | CONTAINS | NUM | EV (113518, DCM, "Organ Dose") | 1 | M | | UNITS = EV (mGy, UCUM, "mGy") |
| 7 | >> | HAS PROPERTIES | CODE | EV (121406, DCM, "Reference Authority") | 1 | MC | XOR Row 8 | BCID 10040 "Radiopharmaceutical Organ Dose Reference Authority" |
| 8 | >> | HAS PROPERTIES | TEXT | EV (121406, DCM, "Reference Authority") | 1 | MC | XOR Row 7 | |

Content Item Descriptions

| | |
|-------|--|
| Row 3 | For paired organs, use (G-A102, SRT, "Right and Left") to report the estimated absorbed dose for both organs. |
| Row 4 | The estimated mass of organ in grams used when calculating the organ dose. |
| Row 5 | Method used to obtain the estimate. This could include a method that does not involve performing a measurement (e.g., Standard Organ Mass Tables). |
| Row 6 | Organ dose (in units of mGy). Organ is specified by row 2. |

TID 10024 Radiopharmaceutical Administration Patient Characteristics

This Template describes the characteristics of the patient that are specific to the current clinical presentation (visit). The characteristics noted may affect the activity received, and how dose is calculated for the patient. Patient Characteristic concepts in this Template, which may replicate attributes in the Patient Study Module, are included here as possible targets of by-reference relationships from other Content Items in the SR tree.

Type: Extensible
Order: Significant
Root: No

Table TID 10024. Radiopharmaceutical Administration Patient Characteristics

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|-----------|--|-----|----------|-----------|--|
| 1 | | | CONTAINER | EV (121118, DCM, "Patient Characteristics") | | | | |
| 2 | > | CONTAINS | CODE | EV (109054, DCM, "Patient state") | 1-n | U | | DCID 10045 "Radiopharmaceutical Patient State" |
| 3 | > | CONTAINS | NUM | EV (121033, DCM, "Subject Age") | 1 | U | | UNITS = DCID 7456 "Units of Measure for Age" |
| 4 | > | CONTAINS | CODE | EV (121032, DCM, "Subject Sex") | 1 | U | | DCID 7455 "Sex" |
| 5 | > | CONTAINS | NUM | EV (8302-2, LN, "Patient Height") | 1 | U | | UNITS = EV (cm, UCUM, "cm") |
| 6 | > | CONTAINS | NUM | EV (29463-7, LN, "Patient Weight") | 1 | U | | UNITS = EV (kg, UCUM, "kg"). |
| 7 | > | CONTAINS | NUM | EV (8277-6, LN, "Body Surface Area") | 1 | U | | UNITS = EV (m2, UCUM, "m^2") |
| 8 | >> | INFERRED FROM | CODE | EV (8278-4, LN, "Body Surface Area Formula") | 1 | U | | BCID 3663 "Body Surface Area Equations" |
| 9 | > | CONTAINS | NUM | EV (F-01860, SRT, "Body Mass Index") | 1 | U | | UNITS = EV (kg/m2, UCUM, "kg/m^2") |
| 10 | >> | INFERRED FROM | CODE | EV (121420, DCM, "Equation") | 1 | U | | DT (122265, DCM, "BMI = Wt/Ht^2") |
| 11 | > | CONTAINS | NUM | EV (14749-6, LN, "Glucose") | 1 | U | | UNITS = EV (mmol/l, UCUM, "mmol/l") |
| 12 | > | CONTAINS | NUM | EV(113550, DCM, "Fasting Duration") | 1 | U | | UNITS = DT (h, UCUM, "hours") |
| 13 | > | CONTAINS | NUM | EV(113551, DCM, "Hydration Volume") | 1 | U | | UNITS = DT (ml, UCUM, "ml") |
| 14 | > | CONTAINS | TEXT | EV (113552, DCM, "Recent Physical Activity") | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|-----------------|------|--|-----|----------|-----------|---|
| 15 | > | CONTAINS | NUM | EV (2160-0, LN, "Serum Creatinine") | 1 | U | | UNITS = DT (mg/dl, UCUM, "mg/dl") |
| 16 | > | CONTAINS | NUM | EV (F-70210, SRT, "Glomerular Filtration Rate") | 1-n | U | | UNITS = DT (ml/min{1.73_m2}, UCUM, "ml/min/1.73m2") |
| 17 | >> | HAS CONCEPT MOD | CODE | EV (G-C036, SRT, "Measurement Method") | 1 | U | | DCID 10047 "GFR Measurement Methods" |
| 18 | >> | HAS CONCEPT MOD | CODE | EV (121050, DCM, "Equivalent meaning of concept name") | 1 | M | | DCID 10046 "GFR Measurements" |

Content Item Descriptions

| | |
|--------|---|
| Row 3 | Defaults to value of Patient's Age (0010,1010) in Patient Study Module |
| Row 5 | <p>Patient height may differ from Patient's Size (0010,1020). Row 4 is the height value used for any height based protocols.</p> <p>Observation DateTime (0040,A032) may be used to record when the measurement was taken.</p> |
| Row 6 | <p>Patient weight may differ from Patient's Weight (0010,1030). Row 5 is the weight value used for any weight based protocols.</p> <p>Observation DateTime (0040,A032) shall be used to record when the measurement was taken.</p> |
| Row 11 | <p>Patient's Blood Glucose level.</p> <p>Observation DateTime (0040,A032) shall be used to record when the measurement was taken.</p> |
| Row 15 | <p>Serum Creatinine level.</p> <p>Observation DateTime (0040,A032) shall be used to record when the measurement was taken.</p> |
| Row 16 | <p>Glomerular Filtration Rate Observation DateTime (0040,A032) shall be used to record when the measurement was taken.</p> <p>The formatting of the UCUM units is aligned with LOINC. See http://unitsofmeasure.org/trac/ticket/98</p> |

Patient Radiation Dose SR IOD Templates

The Templates that comprise the Patient Radiation Dose SR are interconnected as in Figure A-18.

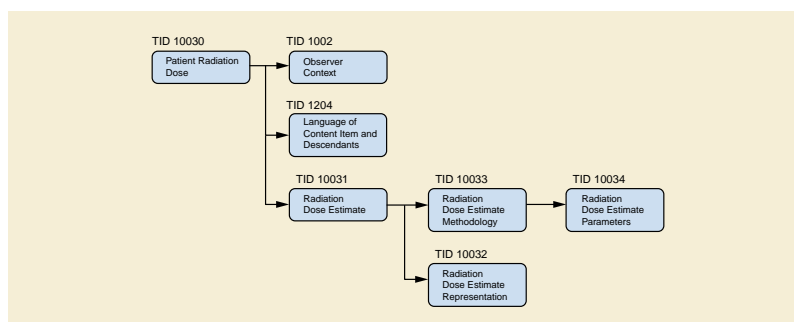


Figure A-18. Patient Radiation Dose Structured Report IOD Template Structure

TID 10030 Patient Radiation Dose

This template defines a container (the root) with subsidiary content items for determining an estimated radiation dose to a patient.

Type: Extensible
Order: Non-Significant
Root: Yes

Table TID 10030. Patient Radiation Dose

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (128401, DCM, "Patient Radiation Dose Report") | 1 | M | | Root Node |
| 2 | > | HAS CONCEPT MOD | INCLUDE | DTID 1204 "Language of Content Item and Descendants" | 1 | M | | |
| 3 | > | HAS OBS CONTEXT | INCLUDE | DTID 1002 "Observer Context" | 1-n | M | | |
| 4 | > | CONTAINS | INCLUDE | DTID 10031 "Radiation Dose Estimate" | 1 | M | | |
| 5 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

Content Item Descriptions

| | |
|-------|---|
| Row 3 | Identify all observers and devices involved with creating the organ estimations included in this Patient Radiation Dose SR. |
|-------|---|

TID 10031 Radiation Dose Estimate

The dose estimate is used to record the results from one analysis method from one or more radiation sources. Organ dose estimates are calculated from one or more irradiation events to a patient. The output from one or more sources of radiation can be used separately or combined to estimate the dose to a patient or individual organs.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 10031. Radiation Dose Estimate

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-----------|----------------------|
| 1 | | CONTAINS | CONTAINER | EV (128402, DCM, "Radiation Dose Estimate") | 1 | M | | |
| 2 | > | HAS CONCEPT MOD | TEXT | EV (128403, DCM, "Radiation Dose Estimate Name") | 1 | M | | |
| 3 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |
| 4 | > | CONTAINS | INCLUDE | DTID 10033 "Radiation Dose Estimate Methodology" | 1 | M | | |
| 5 | > | CONTAINS | INCLUDE | DTID 10032 "Radiation Dose Estimate Representation" | 1-n | U | | |
| 6 | > | CONTAINS | CONTAINER | EV (113517, DCM, "Organ Radiation Dose Information") | 1-n | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|------|-----------------|------|---|-----|----------|-------------------------|---|
| 7 | >> | CONTAINS | CODE | EV (T-D0060, SRT, "Organ") | 1 | M | | DCID 10060 "Organs for Radiation Dose Estimates" |
| 8 | >>> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | MC | IF Row 7 has laterality | DCID 244 Laterality |
| 9 | >> | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |
| 10 | >> | CONTAINS | NUM | DCID 10061 "Absorbed Radiation Dose Types" | 1 | M | | UNITS = EV (mGy, UCUM, "mGy") |
| 11 | >>> | HAS PROPERTIES | NUM | DCID 225 "Measurement Uncertainty Concepts" | 1-n | U | | UNITS = EV (mGy, UCUM, "mGy") |
| 12 | >>>> | HAS PROPERTIES | TEXT | EV (128511, DCM, "Reference to Uncertainty Determination Method") | 1 | U | | |
| 13 | >> | CONTAINS | NUM | DCID 10062 "Equivalent Radiation Dose Types" | 1 | U | | UNITS = EV (mSv, UCUM, "mSv") |
| 14 | >>> | HAS PROPERTIES | NUM | DCID 225 "Measurement Uncertainty Concepts" | 1-n | U | | UNITS = EV (mSv, UCUM, "mSv") |
| 15 | >>>> | HAS PROPERTIES | TEXT | EV (128511, DCM, "Reference to Uncertainty Determination Method") | 1 | U | | |

Content Item Descriptions

| | |
|--------|--|
| Row 13 | Equivalent Dose is an international quantity and includes the use of a Radiation Weighting Factor to compensate for the radiation type, e.g., photon, neutron, alpha or beta particle, etc. Stating equivalent dose is not recommended in almost all dosimetry situations, except in Radiopharmaceutical dose. This is not Effective Dose. |
|--------|--|

TID 10032 Radiation Dose Estimate Representation

Different representations (e.g., images) of the distribution of absorbed energy allow a better understanding of how this energy may affect tissue.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 10032. Radiation Dose Estimate Representation

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|----|----------|-----------|----------------------|
| 1 | | | CONTAINER | EV (128412, DCM, "Radiation Dose Estimate Representation") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|--|-----|----------|-------------------------|--|
| 2 | > | CONTAINS | CODE | EV (128413, DCM, "Distribution Representation") | 1 | M | | DCID 10063 "Radiation Dose Estimate Distribution Representation" |
| 3 | > | CONTAINS | IMAGE | EV (128414, DCM, "Radiation Dose Representation Data") | 1 | MC | XOR Row 4 | |
| 4 | > | CONTAINS | COMPOSITE | EV (128414, DCM, "Radiation Dose Representation Data") | 1 | MC | XOR Row 3 | |
| 5 | > | CONTAINS | CODE | EV (T-D0060, SRT, "Organ") | 1-n | M | | DCID 10060 "Organs for Radiation Dose Estimates" |
| 6 | >> | HAS CONCEPT MOD | CODE | EV (G-C171, SRT, "Laterality") | 1 | MC | IF Row 5 has laterality | DCID 244 "Laterality" |
| 7 | > | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

Content Item Descriptions

| | |
|--------------|--|
| Roww 3 and 4 | Reference to an Instance that contains the dose representation, e.g., surface segmentation, mesh, parametric map, RT dose, Secondary Capture, etc. |
| Row 5 | The organs in the representation. The organs in this Row shall be present in Row 7 of TID 10031 "Radiation Dose Estimate". |

TID 10033 Radiation Dose Estimate Methodology

This template includes the information specific to the organ dose calculation methodology used when estimating dose to individual organs, entire body or a phantom from imaging studies that use ionizing radiation.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 10033. Radiation Dose Estimate Methodology

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|---|----------------------|
| 1 | | | CONTAINER | EV (128415, DCM, "Radiation Dose Estimate Methodology") | 1 | M | | |
| 2 | > | CONTAINS | COMPOSITE | EV (128416, DCM, "SR Instance Used") | 1-n | M | | |
| 3 | >> | HAS OBS CONTEXT | COMPOSITE | EV (128447, DCM, "Spatial Fiducials") | 1-n | U | | |
| 4 | >> | HAS PROPERTIES | UIDREF | EV (128429, DCM, "Event UID Used") | 1-n | MC | IFF some Events in the Structured Report were not used in calculating the dose. | |
| 5 | > | CONTAINS | CONTAINER | EV (128500, DCM, "Patient Radiation Dose Model") | 1 | M | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|--|-----|----------|--|---|
| 6 | >> | CONTAINS | CODE | EV (128417, DCM, "Patient Model Type") | 1 | M | | DCID 10064 "Patient Model Type" |
| 7 | >> | CONTAINS | CODE | EV (128420, DCM, "Radiation Transport Model Type") | 1 | M | | DCID 10065 "Radiation Transport Model Type" |
| 8 | >> | CONTAINS | IMAGE | EV (128425, DCM, "Patient Radiation Dose Model Data") | 1 | UC | XOR Row 9, 10 | |
| 9 | >> | CONTAINS | COMPOSITE | EV (128425, DCM, "Patient Radiation Dose Model Data") | 1 | UC | XOR Row 8, 10 | |
| 10 | >> | CONTAINS | UIDREF | EV (128425, DCM, "Patient Radiation Dose Model Data") | 1 | UC | XOR Row 8, 9 | |
| 11 | >> | CONTAINS | TEXT | EV (128426, DCM, "Patient Radiation Dose Model Reference") | 1 | U | | |
| 12 | >> | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |
| 13 | >> | CONTAINS | CONTAINER | EV (128427, DCM, "Patient Model Demographics") | 1 | M | | |
| 14 | >>> | CONTAINS | NUM | EV (128428, DCM, "Model Minimum Age") | 1 | MC | IF model requires minimum age to be defined | DCID 7456 "Units of Measure for Age" |
| 15 | >>> | CONTAINS | NUM | EV (128430, DCM, "Model Maximum Age") | 1 | MC | IF model requires maximum age to be defined | DCID 7456 "Units of Measure for Age" |
| 16 | >>> | CONTAINS | CODE | EV (128437, DCM, "Model Patient Sex") | 1 | MC | IF model requires sex to be defined. | DCID 7455 "Sex" |
| 17 | >>> | CONTAINS | NUM | EV (128438, DCM, "Model Minimum Weight") | 1 | MC | IF model requires minimum weight to be defined | UNITS = EV (kg, UCUM, "kg") |
| 18 | >>> | CONTAINS | NUM | EV (128441, DCM, "Model Maximum Weight") | 1 | MC | IF model requires maximum weight to be defined | UNITS = EV (kg, UCUM, "kg") |
| 19 | >>> | CONTAINS | NUM | EV (128439, DCM, "Model Minimum Height") | 1 | MC | IF model requires minimum height to be defined | UNITS = EV (cm, UCUM, "cm") |
| 20 | >>> | CONTAINS | NUM | EV (128442, DCM, "Model Maximum Height") | 1 | MC | IF model requires maximum height to be defined | UNITS = EV (cm, UCUM, "cm") |
| 21 | >> | CONTAINS | CONTAINER | EV (128456, DCM, "Patient Model Registration") | 1-n | UC | IF spatial information used from Radiation Dose SR or Patient Radiation Dose Model | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|--|-----|----------|--|--|
| 22 | >>> | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |
| 23 | >>> | CONTAINS | CODE | EV (128446, DCM, "Registration Method") | 1 | M | | DCID 7100 "RCS Registration Method Type" |
| 24 | >>> | CONTAINS | COMPOSITE | EV (128444, DCM, "Spatial Registration Reference") | 1 | MC | IFF Row 8, 9 or 10 are present and Frame of Reference is defined | |
| 25 | > | CONTAINS | CONTAINER | EV (128457, DCM, "X-Ray Beam Attenuator") | 1-n | MC | IF attenuators used in estimation | |
| 26 | >> | CONTAINS | CODE | EV (128458, DCM, "Attenuator Category") | 1 | M | | DCID 10066 "Attenuator Category" |
| 27 | >> | CONTAINS | CODE | EV (128465, DCM, "Equivalent Attenuator Material") | 1 | M | | DCID 10067 "Radiation Attenuator Materials" |
| 28 | >> | CONTAINS | NUM | EV (128469, DCM, "Equivalent Attenuator Thickness") | 1 | MC | IF the attenuator is of uniform thickness | UNITS = EV (mm, UCUM, "mm") |
| 29 | >> | CONTAINS | TEXT | EV (128468, DCM, "Attenuator Description") | 1 | U | | |
| 30 | >> | CONTAINS | CONTAINER | EV (128472, DCM, "X-Ray Beam Attenuator Model") | 1 | U | | |
| 31 | >>> | CONTAINS | CODE | EV (128420, DCM, "Radiation Transport Model Type") | 1 | U | | DCID 10065 "Radiation Transport Model Type" |
| 32 | >>> | CONTAINS | TEXT | EV (128474, DCM, "X-Ray Beam Attenuator Model Reference") | 1 | U | | |
| 33 | >>> | CONTAINS | IMAGE | EV (128470, DCM, "X-Ray Attenuator Model Data") | 1 | UC | XOR Row 34, 35 | |
| 34 | >>> | CONTAINS | COMPOSITE | EV (128470, DCM, "X-Ray Attenuator Model Data") | 1 | UC | XOR Row 33, 35 | |
| 35 | >>> | CONTAINS | UIDREF | EV (128470, DCM, "X-Ray Attenuator Model Data") | 1 | UC | XOR Row 33, 34 | |
| 36 | >> | CONTAINS | CONTAINER | EV (128475, DCM, "X-Ray Beam Attenuator Model Registration") | 1-n | U | | |
| 37 | >>> | CONTAINS | CODE | EV (128446, DCM, "Registration Method") | 1 | M | | DCID 7100 "RCS Registration Method Type" |
| 38 | >>> | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|-----|-----------------|-----------|--|-----|----------|--|------------------------------------|
| 39 | >>> | CONTAINS | COMPOSITE | EV (128444, DCM, "Spatial Registration Reference") | 1 | MC | IFF Row 33, 34 or 35 are present and Frame of Reference is defined | |
| 40 | > | CONTAINS | CONTAINER | EV (128476, DCM, "Radiation Dose Estimate Method") | 1-n | M | | |
| 41 | >> | CONTAINS | CODE | EV (128477, DCM, "Radiation Dose Estimate Method Type") | 1 | M | | DCID 10068 "Estimate Method Types" |
| 42 | >> | CONTAINS | INCLUDE | DTID 10034 "Radiation Dose Estimate Parameters" | 1 | U | | |
| 43 | >> | CONTAINS | TEXT | EV (128482, DCM, "Radiation Dose Estimate Method Reference") | 1 | U | | |

Content Item Descriptions

| | |
|--------------|---|
| Row 2 | <p>Reference to Radiation Dose SRs or Radiopharmaceutical Administration Dose SRs used in the dose estimation. At least one such SR shall be referenced.</p> <p>Note</p> <p>If an SR does not exist, one must be created from estimated data.</p> |
| Row 3 | Reference to Fiducial SOP Instance that is used to register the Frame of Reference of the Radiation Dose SR. |
| Row 4 | Reference to Irradiation Event UIDs or Radiopharmaceutical Event UIDs used in the Radiation Dose Estimate Methodology. This shall not be present if all events in the SR are used. |
| Rows 8 and 9 | Reference to an instance that contains the model used when determining the radiation transport and deposition of energy within a patient, e.g., Surface Segmentation, Mesh, Parametric Map, etc. |
| Row 10 | Reference to the series of images that contains the model used when determining the radiation transport and deposition of energy within a patient, e.g., CT, MRI, etc. |
| Row 11 | Reference to Publication describing the model used. If proprietary, reference the manufacturer model and version of software used. |
| Rows 13-20 | Provide the demographics used in the patient model to estimate dose. These are not necessarily the demographics of the actual patient. |
| Row 21 | <p>Contains the Spatial Registration from each Source Radiation Dose SR Frame of Reference to the patient model Frame of Reference.</p> <p>The Frame of Reference of patient model is defined by the space of model coordinates. The Frame of Reference of the Source Radiation Dose SR is the Frame of Reference of the acquired patient images. If no Frame of Reference of the acquired patient images exists, fiducials can be used to define Frame of Reference in both the equipment space, i.e., Source Radiation Dose SR, and the Patient Model space and referenced in Row 5.</p> <p>If RCS Registration Method Type is Visual Alignment, it is assumed any translation/rotation information from the visual alignment is added to other alignment translation/rotation information and saved as a single Spatial Registration SOP Instance.</p> |

| | |
|----------------|---|
| Row 25 | One content item per attenuator. This can be information about materials in the radiation beam that is used in the estimation method and that may or may not have been included in the Radiation Dose SR. If the beam Attenuator (e.g., filter) is included here and is also in the Radiation Dose SR it is assumed additional information relative to the beam Attenuator material, shape, size, location was needed and this information was not in the Radiation Dose SR or the Radiation Dose SR information is considered incorrect or incomplete. |
| Row 27 | The estimation method may use an equivalent material rather than the actual material, e.g., a plastic table may be use equivalent aluminum attenuation. |
| Row 28 | If the attenuator is not uniform, a thickness may still be provided and it is expected that Row 29 (Attenuator Description) will clarify how that thickness was determined. The specified equivalent material is identified in Row 27. |
| Row 29 | The attenuator characteristics may be described here. If the attenuator thickness was not provided in Row 28, the attenuator may still be described. |
| Row 30 | Complex attenuators are best described by a model. |
| Rows 33 and 34 | Reference to an Instance that contains the model e.g., Surface Segmentation, Mesh, Parametric Map, etc. |
| Row 35 | Reference to the Series of Images that contains the model, e.g., CT, MRI, etc. This can be a Spatial Fiducials SOP Instance. |
| Row 36 | Contains the Spatial Registration from each Source Radiation Dose SR Frame of Reference to the X-Ray attenuator model Frame of Reference. The Frame of Reference of the X-Ray attenuator model is defined by the space of model coordinates. The Frame of Reference of the Source Radiation Dose SR is the Frame of Reference of the acquired patient images. If no Frame of Reference of the acquired patient images exists, fiducials can be used to define Frame of Reference in both the equipment space, i.e., Source Radiation Dose SR, and X-Ray attenuator model space and referenced in Row 30. If RCS Registration Method Type is Visual Alignment it is assumed any translation/rotation information from the visual alignment is added to other alignment translation/rotation information and saved as a single Spatial Registration SOP Instance. |
| Row 32 and 43 | Provide name of method, reference to a publication or the manufacturer model and version |

TID 10034 Radiation Dose Estimate Parameters

This template includes the parameters that are specific to the Radiation Dose Estimate Method used in the algorithms when estimating dose to individual organs, phantoms, or the entire body from imaging studies that use ionizing radiation.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 10034. Radiation Dose Estimate Parameters

| | NL | Rel with Parent | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|-----------------|-----------|---|-----|----------|-----------------|--|
| 1 | | | CONTAINER | EV (128434, DCM, "Radiation Dose Estimate Parameters") | 1 | M | | |
| 2 | > | CONTAINS | NUM | DCID 10069 "Radiation Dose Estimation Parameter " | 1-n | MC | IF Row 4 absent | UNITS = DCID 82 "Units of Measurement" |
| 4 | > | CONTAINS | COMPOSITE | EV (128436, DCM, "Radiation Dose Composite Parameters") | 1-n | MC | IF Row 2 absent | |
| 5 | >> | CONTAINS | TEXT | EV (121106, DCM, "Comment") | 1 | U | | |

Content Item Descriptions

| | |
|-------|--|
| Row 2 | <p>These are the parameters of the method specified in Row 43 of TID 10033 "Radiation Dose Estimate Methodology".</p> <p>The code meanings should correlate directly with the names of the parameters used in the methodology documentation.</p> |
| Row 4 | References to Parametric Map Image, Mesh, encapsulated pdf, or other similar IOD. |
| Row 5 | Describes the contents of the IOD referenced in Row 4 |

B DCMR Context Groups (Normative)

This Annex specifies the content of Context Groups required by DICOM IODs.

Note

Section 7.1 of this Part defines the fields of Context Group tables.

CID 2 Anatomic Modifier

Type: Extensible
Version: 20160314

Table CID 2. Anatomic Modifier

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A100 | Right | 24028007 | C0205090 |
| SRT | G-A101 | Left | 7771000 | C0205091 |
| SRT | G-A102 | Bilateral | 51440002 | C0238767 |
| SRT | G-A103 | Unilateral | 66459002 | C0205092 |
| SRT | G-A104 | Lateral | 49370004 | C0205093 |
| SRT | R-404CC | Anterior | 255549009 | C1704448 |
| SRT | R-404CE | Posterior | 255551008 | C0205095 |
| SRT | G-A107 | Cephalic | 66787007 | C0205096 |
| SRT | G-A108 | Caudal | 3583002 | C0205097 |
| SRT | R-404D5 | Medial | 255561001 | C0205098 |
| SRT | G-A110 | Central | 26216008 | C0205099 |
| SRT | G-A111 | Peripheral | 14414005 | C0205100 |
| SRT | R-40941 | External | 261074009 | C0205101 |
| SRT | R-40819 | Internal | 260521003 | C0205102 |
| SRT | G-A114 | Intermediate | 11896004 | C0205103 |
| SRT | R-4094A | Inferior | 261089000 | C0542339 |
| SRT | R-42191 | Superior | 264217000 | C1282910 |
| SRT | G-A117 | Transverse | 62824007 | C0205106 |
| SRT | G-A118 | Proximal | 40415009 | C0205107 |
| SRT | G-A119 | Distal | 46053002 | C0205108 |
| SRT | G-A120 | Postaxial | 60583000 | C0205109 |
| SRT | G-A121 | Preaxial | 32400000 | C0205110 |
| SRT | G-A122 | Apical | 43674008 | C0205111 |
| SRT | G-A123 | Basal | 57195005 | C0205112 |
| SRT | G-A127 | Afferent | 49530007 | C0205115 |
| SRT | G-A128 | Efferent | 33843005 | C0205116 |
| SRT | G-A138 | Coronal | 81654009 | C0205123 |
| SRT | G-A139 | Superficial | 26283006 | C0205124 |
| SRT | G-A140 | Deep | 795002 | C0205125 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | G-A142 | Horizontal | 24020000 | C0205126 |
| SRT | G-A143 | Longitudinal | 38717003 | C0205127 |
| SRT | G-A144 | Vertical | 33096000 | C0205128 |
| SRT | G-A145 | Sagittal | 30730003 | C0205129 |
| SRT | G-A147 | Axial | 24422004 | C0205131 |
| SRT | G-A151 | Extra-articular | 87687004 | C0205135 |
| SRT | G-A206 | Surface | 410679008 | C0205148 |
| SRT | G-A169 | Gutter | 68493006 | C0205149 |
| SRT | G-A170 | Hilar | 32381004 | C0205150 |
| SRT | G-A171 | Capsular | 11070000 | C0205151 |
| SRT | G-A172 | Subcapsular | 61397002 | C0205152 |
| SRT | G-A174 | Edge | 57183005 | C0205154 |
| SRT | G-A180 | Anterolateral | 37197008 | C0332194 |
| SRT | G-A182 | Posterolateral | 90069004 | C0332195 |
| SRT | G-A15A | Intra-articular | 131183008 | C0442108 |
| SRT | G-A428 | Marginal | 112233002 | C0205284 |

CID 4 Anatomic Region

Type: Extensible
Version: 20160314

Table CID 4. Anatomic Region

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|-----------------------|----------------------|------------------------|
| Include CID 4030 "CT, MR and PET Anatomy Imaged" | | | | |
| Include CID 4040 "Endoscopy Anatomic Regions" | | | | |
| Include CID 4042 "XA/XRF Anatomy Imaged" | | | | |
| SRT | T-32100 | Atrium | 59652004 | C0018792 |
| SRT | T-D8104 | Axilla | 91470000 | C0004454 |
| SRT | T-D2100 | Back | 77568009 | C0004600 |
| SRT | T-D6500 | Broad ligament | 34411009 | C0006205 |
| SRT | T-D1206 | Buccal region of face | 60819002 | C0007966 |
| SRT | T-D2600 | Buttock | 46862004 | C0006497 |
| SRT | T-72100 | Calyx | 2334006 | C0022651 |
| SRT | T-D1206 | Cheek | 60819002 | C0007966 |
| SRT | T-AA200 | Cornea | 28726007 | C0010031 |
| SRT | T-AB000 | Ear | 1910005 | C0013443 |
| SRT | T-41000 | Endo-arterial | 51114001 | C0003842 |
| SRT | T-32000 | Endo-cardiac | 80891009 | C0018787 |
| SRT | T-56000 | Endo-esophageal | 32849002 | C0014876 |
| SRT | T-21300 | Endo-nasal | 53342003 | C0225425 |
| SRT | T-23050 | Endo-nasopharyngeal | 18962004 | C0225497 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | T-59600 | Endo-rectal | 34402009 | C0034896 |
| SRT | T-71000 | Endo-renal | 64033007 | C0022646 |
| SRT | T-73000 | Endo-ureteric | 87953007 | C0041951 |
| SRT | T-75000 | Endo-urethral | 13648007 | C0041967 |
| SRT | T-82000 | Endo-vaginal | 76784001 | C0042232 |
| SRT | T-40000 | Endo-vascular | 59820001 | C0005847 |
| SRT | T-48000 | Endo-venous | 29092000 | C0042449 |
| SRT | T-74250 | Endo-vesical | 48367006 | C0227710 |
| SRT | T-D4200 | Epigastric region | 27947004 | C0230185 |
| SRT | T-AA810 | Eyelid | 80243003 | C0015426 |
| SRT | T-D1200 | Face | 89545001 | C0015450 |
| SRT | T-D2310 | Flank | 58602004 | C0230171 |
| SRT | T-15200 | Fontanel of skull | 79361005 | C0224548 |
| SRT | T-D2600 | Gluteal region | 46862004 | C0006497 |
| SRT | T-15710 | Hip joint | 24136001 | C0019558 |
| SRT | T-D4240 | Hypogastric region | 11708003 | C0230189 |
| SRT | T-D161E | Submental | 170887008 | C0931905 |
| SRT | T-55300 | Hypopharynx | 81502006 | C0020629 |
| SRT | T-D4010 | Intra-abdominal | 52731004 | C0230168 |
| SRT | G-A15A | Intra-articular | 131183008 | C0442108 |
| SRT | T-D1400 | Intracranial | 1101003 | C0230041 |
| SRT | T-56000 | Intra-esophageal | 32849002 | C0014876 |
| SRT | T-D6221 | Intra-pelvic | 21844003 | C0559769 |
| SRT | T-D3000 | Intra-thoracic | 51185008 | C0817096 |
| SRT | T-D4211 | Left hypochondriac region | 133945003 | C0738591 |
| SRT | T-D7020 | Left inguinal region | 85119005 | C0230321 |
| SRT | T-D4140 | Left lower quadrant of abdomen | 68505006 | C0230180 |
| SRT | T-D2340 | Left lumbar region | 133943005 | C1297910 |
| SRT | T-D4130 | Left upper quadrant of abdomen | 86367003 | C0230179 |
| SRT | T-04003 | Lower inner quadrant of breast | 19100000 | C0222597 |
| SRT | T-04005 | Lower outer quadrant of breast | 33564002 | C0222599 |
| SRT | T-D2300 | Lumbar region | 52612000 | C0024090 |
| SRT | T-28000 | Lung | 39607008 | C0024109 |
| SRT | T-51000 | Mouth | 21082005 | C0226896 |
| SRT | T-21000 | Nose | 45206002 | C0028429 |
| SRT | T-D4450 | Omental bursa | 113346000 | C0230212 |
| SRT | T-D4600 | Omentum | 27398004 | C0028977 |
| SRT | T-87000 | Ovary | 15497006 | C0029939 |
| SRT | T-65010 | Pancreatic duct | 69930009 | C0030288 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | T-D3136 | Parasternal | 91691001 | C0458345 |
| SRT | T-91000 | Penis | 18911002 | C0030851 |
| SRT | T-D2700 | Perineum | 38864007 | C0031066 |
| SRT | T-D9310 | Popliteal fossa | 32361000 | C0230436 |
| SRT | T-72000 | Renal pelvis | 25990002 | C0227666 |
| SRT | T-D4900 | Retroperitoneum | 82849001 | C0035359 |
| SRT | T-D4212 | Right hypochondriac region | 133946002 | C0738590 |
| SRT | T-D7010 | Right inguinal region | 37117007 | C0230318 |
| SRT | T-D4120 | Right lower quadrant of abdomen | 48544008 | C0230178 |
| SRT | T-D2342 | Right lumbar region | 133944004 | C1297911 |
| SRT | T-D4110 | Right upper quadrant of abdomen | 50519007 | C0230177 |
| SRT | T-D1160 | Scalp | 41695006 | C0036270 |
| SRT | T-AA110 | Sclera | 18619003 | C0036410 |
| SRT | T-98000 | Scrotum | 20233005 | C0036471 |
| SRT | T-A7010 | Spinal cord | 2748008 | C0037925 |
| SRT | T-D4210 | Subcostal | 19695001 | C0442184 |
| SRT | T-D1603 | Submandibular area | 5713008 | C0230070 |
| SRT | T-D3213 | Subxiphoid | 5076001 | C0230144 |
| SRT | T-D1620 | Supraclavicular region of neck | 77621008 | C0230078 |
| SRT | T-D4240 | Suprapubic region | 11708003 | C0230189 |
| SRT | T-11218 | Suprasternal notch | 26493002 | C0222769 |
| SRT | T-D9100 | Thigh | 68367000 | C0039866 |
| SRT | T-D3000 | Thorax | 51185008 | C0817096 |
| SRT | T-53000 | Tongue | 21974007 | C0040408 |
| SRT | T-D4230 | Umbilical region | 90290004 | C0041638 |
| SRT | T-04002 | Upper inner quadrant of breast | 77831004 | C0222596 |
| SRT | T-04004 | Upper outer quadrant of breast | 76365002 | C0222598 |
| SRT | T-82000 | Vagina | 76784001 | C0042232 |
| SRT | A-04140 | Vascular graft | 118375008 | C1289794 |
| SRT | T-32400 | Ventricle | 21814001 | C0018827 |
| SRT | T-81000 | Vulva | 45292006 | C0042993 |
| SRT | T-15460 | Wrist joint | 74670003 | C1322271 |

CID 5 Transducer Approach

Type: Extensible
Version: 20160314

Table CID 5. Transducer Approach

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | G-A100 | Right | 24028007 | C0205090 |
| SRT | G-A101 | Left | 7771000 | C0205091 |
| SRT | G-A104 | Lateral | 49370004 | C0205093 |
| SRT | R-404CC | Anterior | 255549009 | C1704448 |
| SRT | R-404CE | Posterior | 255551008 | C0205095 |
| SRT | G-A108 | Caudal | 3583002 | C0205097 |
| SRT | R-404D5 | Medial | 255561001 | C0205098 |
| SRT | G-A110 | Central | 26216008 | C0205099 |
| SRT | G-A111 | Peripheral | 14414005 | C0205100 |
| SRT | R-40941 | External | 261074009 | C0205101 |
| SRT | R-40819 | Internal | 260521003 | C0205102 |
| SRT | R-4094A | Inferior | 261089000 | C0542339 |
| SRT | R-42191 | Superior | 264217000 | C1282910 |
| SRT | G-A117 | Transverse | 62824007 | C0205106 |
| SRT | G-A118 | Proximal | 40415009 | C0205107 |
| SRT | G-A119 | Distal | 46053002 | C0205108 |
| SRT | G-A122 | Apical | 43674008 | C0205111 |
| SRT | G-A206 | Surface | 410679008 | C0205148 |
| SRT | G-A599 | Ascending | 79458005 | C0205385 |
| SRT | G-A600 | Descending | 75294000 | C0205386 |
| SRT | T-03000 | Subcutaneous tissue | 71966008 | C0278403 |
| SRT | T-A1120 | Dura mater | 18545000 | C0013313 |
| SRT | T-A1280 | Pia mater | 23180006 | C0031869 |
| SRT | A-2C600 | External prosthesis for sonographic procedure [Stand-off] | 102322008 | C0522650 |
| SRT | A-2C602 | Water bag prosthesis for imaging procedure | 102323003 | C0522651 |
| SRT | A-2C604 | Saline bag prosthesis for imaging procedure | 102324009 | C0522652 |
| SRT | A-2C606 | Gel prosthesis for imaging procedure | 102325005 | C0522653 |
| SRT | G-A107 | Cranial | 66787007 | C0205096 |
| SRT | G-A10A | Midline | 261129000 | C0441992 |
| SRT | G-A188 | Mid-longitudinal | 103342007 | C0522490 |
| SRT | G-A189 | Parasagittal | 103343002 | C0522491 |
| SRT | R-42142 | Intraluminal | 264045001 | C0442115 |
| SRT | G-A171 | Capsular | 11070000 | C0205151 |
| SRT | T-D0048 | Lumen | 113342003 | C0524461 |
| SRT | G-4022 | Contact with | 11723008 | C0332158 |
| SRT | T-D0062 | Parenchyma | 91772007 | C0524464 |

Note

In a prior version of this Context Group, the codes G-A11A, G-A11B, G-A12A, G-A16A, G-A16B, G-A16C, and G-A16D were specified for various concepts. The use of some of those codes conflicts with their assignment to other concepts in SNOMED, and their use in this context is deprecated. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.

CID 6 Transducer Orientation

Type: Extensible
Version: 20040322

Table CID 6. Transducer Orientation

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A138 | Coronal | 81654009 | C0205123 |
| SRT | G-A143 | Longitudinal | 38717003 | C0205127 |
| SRT | G-A145 | Sagittal | 30730003 | C0205129 |
| SRT | G-A189 | Parasagittal | 103343002 | C0522491 |
| SRT | G-A472 | Oblique | 21114003 | C0205315 |
| SRT | G-A185 | Long axis | 103339001 | C0522487 |
| SRT | G-A13B | Off axis | 419161000 | C1635161 |
| SRT | G-A186 | Short axis | 103340004 | C0522488 |
| SRT | G-A191 | Five chamber | 398994001 | C1302157 |
| SRT | G-A19B | Two chamber | 399232001 | C1302267 |
| SRT | G-A19C | Four chamber | 399214001 | C1302256 |
| SRT | G-A117 | Transverse | 62824007 | C0205106 |

Note

In a prior version of this table, the code G-A11B was specified for the concept Parasagittal. The use of this code conflicts with its assignment to another concept in SNOMED, and its use in this context is deprecated. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.

CID 7 Ultrasound Beam Path

Type: Extensible
Version: 20160314

Table CID 7. Ultrasound Beam Path

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------|----------------------|------------------------|
| SRT | G-D027 | Trans-hepatic | 103381007 | C0522516 |
| SRT | G-A1B2 | Trans-gastric | 103353001 | C0442355 |
| SRT | G-A1A5 | Trans-pleural | 103348006 | C0522494 |
| SRT | G-A1B3 | Trans-mural | 103354007 | C0522497 |
| SRT | G-D065 | Trans-orbital | 129226004 | C0442367 |
| SRT | G-A1A6 | Trans-pancreatic | 103349003 | C0522495 |
| SRT | G-A1A4 | Trans-renal | 103347001 | C0522493 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | G-D032 | Trans-temporal | 103382000 | C0522517 |
| SRT | G-A1A2 | Trans-thecal | 103345009 | C0522492 |
| SRT | G-A1A1 | Trans-vesical | 103344008 | C0442393 |
| SRT | G-A1A3 | Trans-splenic | 103346005 | C0589466 |
| SRT | G-D033 | Trans-esophageal | 103383005 | C0522518 |
| SRT | G-D001 | Trans-abdominal | 66739002 | C0205496 |
| SRT | G-D002 | Trans-vaginal (endovaginal) | 54300008 | C0175672 |

CID 8 Angiographic Interventional Devices

Type: Extensible
Version: 20160314

Table CID 8. Angiographic Interventional Devices

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | A-25500 | Stent | 65818007 | C0038257 |
| SRT | A-26800 | Catheter | 19923001 | C0085590 |
| SRT | A-81080 | Laser | 38586004 | C0458142 |
| SRT | C-20005 | Glue | 57126000 | C0017780 |
| SRT | A-25600 | Atherectomy device | 102312002 | C0522642 |
| SRT | A-25614 | Embolization ball | 102315000 | C0522645 |
| SRT | A-26912 | Percutaneous transluminal angioplasty balloon | 102319006 | C0522648 |
| SRT | A-25612 | Embolization coil | 102314001 | C0522644 |
| SRT | A-25612 | Gianturco coil | 102314001 | C0522644 |
| SRT | A-27322 | Detachable balloon | 102320000 | C0522649 |
| SRT | A-26802 | Guiding catheter | 102317008 | C0221799 |
| SRT | A-25616 | Embolization particulate | 102316004 | C0522646 |
| SRT | A-25610 | Rotational atherectomy device | 102313007 | C0522643 |
| SRT | A-10141 | Measuring ruler | 102304005 | C0522637 |
| DCM | 122485 | Sphere | | |

CID 9 Image Guided Therapeutic Procedures

Type: Extensible
Version: 20160314

Table CID 9. Image Guided Therapeutic Procedures

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | F-39780 | Vasoconstriction | 32318003 | C0042396 |
| SRT | F-39800 | Vasodilatation | 30017007 | C0042401 |
| SRT | P1-03100 | Biopsy | 86273004 | C0005558 |
| SRT | P1-03176 | Removal of foreign body | 10849003 | C0184937 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | P1-05035 | Intra-arterial infusion of thrombolytic agent | 69245005 | C0184952 |
| SRT | P1-05052 | Irrigation following insertion of catheter | 8592001 | C0022101 |
| SRT | P1-05535 | Catheterization | 45211000 | C0007430 |
| SRT | P1-30350 | Atherectomy | 6832004 | C0162513 |
| SRT | P1-30351 | Atherectomy by rotary cutter | 65659003 | C0162655 |
| SRT | P1-30352 | Atherectomy by laser | 76611008 | C0521229 |
| SRT | P1-30530 | Selective embolization of artery | 57238002 | C0189632 |
| SRT | P5-31500 | Percutaneous transluminal balloon angioplasty | 68457009 | C0411287 |
| SRT | P5-39010 | Transcatheter therapy for embolization | 16736007 | C0203006 |
| SRT | P0-05AFA | Percutaneous retrieval of intravascular foreign body | 240946003 | C0411305 |
| SRT | P1-00018 | Failed attempted procedure | 103709008 | C0522770 |
| SRT | P1-05550 | Stent placement | 103716009 | C0522776 |
| SRT | P1-05536 | Catheter manipulation | 103712006 | C0522773 |
| SRT | P1-05537 | Catheter replacement | 103713001 | C0522774 |
| SRT | P1-05538 | Occlusion of catheter | 103714007 | C0522775 |
| SRT | P1-05539 | Removal of catheter | 103715008 | C0394884 |
| SRT | P5-39015 | Transcatheter deployment of detachable balloon | 105372003 | C0524313 |
| SRT | P5-39191 | Percutaneous insertion of intravascular filter | 105373008 | C0524314 |
| SRT | P1-86100 | Amniocentesis | 34536000 | C0002627 |
| SRT | P5-B8310 | Ultrasonic guidance for amniocentesis | 65388005 | C0203432 |
| SRT | P1-86520 | Amnioinfusion [injection of amnion] | 15415002 | C0521272 |
| SRT | P1-86180 | Intrauterine cordocentesis | 6708002 | C0162650 |
| SRT | P1-28160 | Thoracentesis | 91602002 | C0189477 |
| SRT | P1-86E70 | Breech Version [Obstetrical Version] | 65240009 | C0195731 |
| SRT | P2-68060 | Intrauterine transfusion | 45460008 | C0005843 |
| SRT | P1-86C50 | Fetocide (selective reduction) | 133874006 | C1297889 |
| SRT | P1-93506 | Prostaglandin injection | 133875007 | C1297890 |

CID 10 Interventional Drug

Type: Extensible
Version: 20160314

Table CID 10. Interventional Drug

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | C-21047 | Ethanol | 419442005 | C0001962 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | C-22947 | Methylene blue | 6725000 | C0025746 |
| SRT | C-51000 | Antihistamine | 6425004 | C0003360 |
| SRT | C-67770 | Atropine | 73949004 | C0004259 |
| SRT | C-72000 | Diuretic | 30492008 | C0012798 |
| SRT | C-80110 | Antiarrhythmic drug | 67507000 | C0003195 |
| SRT | C-80120 | Inotropic agent | 111139005 | C0304509 |
| SRT | C-80123 | Cardiotonic drug | 69440003 | C0007209 |
| SRT | F-6181D | Cardiac adrenergic blocking agent | 373263004 | C1277070 |
| SRT | C-80131 | Alpha-adrenergic blocking agent | 67440007 | C0001641 |
| SRT | C-80135 | beta-Adrenergic blocking agent | 33252009 | C0001645 |
| SRT | C-80330 | Digoxin | 796001 | C0012265 |
| SRT | C-80400 | Lidocaine | 82573000 | C0023660 |
| SRT | C-80401 | Lidocaine hydrochloride | 61773008 | C0546869 |
| SRT | C-80430 | Nifedipine | 85272000 | C0028066 |
| SRT | C-80450 | Propranolol | 55745002 | C0033497 |
| SRT | C-80460 | Quinidine | 31306009 | C0034414 |
| SRT | C-80490 | Verapamil | 47898004 | C0042523 |
| SRT | C-81100 | Hypotensive agent | 1182007 | C0003364 |
| SRT | C-81120 | Centrally acting hypotensive agent | 4382004 | C0304523 |
| SRT | C-81560 | Nitroglycerin | 71759000 | C0017887 |
| SRT | C-A2010 | Glucagon preparation | 10712001 | C0017687 |
| SRT | C-A6500 | Anticoagulant | 81839001 | C0003280 |
| SRT | C-A6530 | Warfarin | 48603004 | C0043031 |
| SRT | C-A6540 | Heparin | 84812008 | C0019134 |
| SRT | C-A6700 | Anti-heparin agent | 3361000 | C0304941 |
| SRT | C-A6710 | Protamine sulfate | 64520006 | C0033602 |
| SRT | C-A6900 | Coagulant | 15117003 | C0009117 |
| SRT | F-D7011 | Human fibrinogen | 418326009 | C2587184 |
| SRT | C-A7000 | Hemostatic agent | 26370007 | C0019120 |
| SRT | C-A7001 | Astringent drug | 60533005 | C0004110 |
| SRT | C-A7021 | Antihemophilic factor preparation | 59057006 | C0301494 |
| SRT | F-6ACA0 | Thrombin preparation | 36176003 | C0040018 |
| SRT | F-D7B50 | Thromboplastin | 65265006 | C0040048 |
| SRT | C-A7220 | Dextran | 13132007 | C0086140 |
| SRT | C-50434 | Thrombolytic agent | 303960004 | C0016018 |
| SRT | C-A7420 | Streptokinase preparation | 20847002 | C0038418 |
| SRT | C-A7430 | Urokinase preparation | 59082006 | C0042071 |
| SRT | C-A7440 | Injectable fibrinolysin | 87811005 | C0301485 |
| SRT | C-815E1 | Tolazoline hydrochloride | 19041007 | C0770500 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | F-B2135 | Epinephrine | 387362001 | C0014563 |

CID 11 Route of Administration

Type: Extensible
Version: 20160314

Table CID 11. Route of Administration

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | G-D101 | Intravenous route | 47625008 | C1522726 |
| SRT | G-D102 | Intra-arterial route | 58100008 | C1561451 |
| SRT | G-D103 | Intramuscular route | 78421000 | C1556154 |
| SRT | G-D104 | Subcutaneous route | 34206005 | C1522438 |
| SRT | G-D17D | Intracutaneous route | 372464004 | C1522475 |
| SRT | G-D106 | Intraperitoneal route | 38239002 | C1522583 |
| SRT | G-D107 | Intramedullary route | 60213007 | C1512957 |
| SRT | G-D108 | Intrathecal route | 72607000 | C0677897 |
| SRT | G-D109 | Intra-articular route | 12130007 | C0205528 |
| NCIt | C38244 | Intraepithelial route | | C1512943 |
| SRT | G-D112 | Topical route | 6064005 | C1522168 |
| SRT | G-D140 | Oral route | 26643006 | C1527415 |
| NCIt | C38306 | Transluminal route | | C1522231 |
| SRT | G-D144 | Intraluminal route | 37737002 | C1522217 |
| NCIt | C38213 | Extraluminal route | | C1517059 |
| SRT | R-40B32 | By inhalation | 446406008 | C1998547 |
| SRT | G-D160 | Per rectum | 37161004 | C1527425 |
| SRT | G-D164 | Vaginal route | 16857009 | C1522570 |
| SRT | G-D17C | Intracoronary route | 372463005 | C0595454 |
| SRT | G-D173 | Intracardiac route | 372460008 | C1522207 |
| SRT | R-F2C86 | Intraventricular route - cardiac | 420287000 | C1720462 |
| DCM | 127070 | Retro-orbital route | | |
| SRT | G-D172 | Nasal route | 46713006 | C1522019 |
| SRT | G-D17D | Intradermal route | 372464004 | C1522475 |
| SRT | R-F2CD4 | Intratumor route | 447122006 | C2960749 |

CID 12 Radiographic Contrast Agent

Type: Extensible
Version: 20160314

Table CID 12. Radiographic Contrast Agent

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Trade Name (Informative) |
|---------------------------------|-------------------|-----------------------|-----------------------------|-------------------------------|---|
| SRT | A-80230 | Air | 15158005 | C0001861 | |
| SRT | C-10110 | Oxygen | 24099007 | C0030054 | |
| SRT | C-10120 | Water | 11713004 | C0043047 | |
| SRT | C-10520 | Carbon dioxide | 31811003 | C0007012 | |
| SRT | C-12217 | Barium Sulfate | 25419009 | C0004754 | |
| SRT | C-17800 | Gadolinium | 58281002 | C0016911 | |
| SRT | C-B0300 | Contrast agent | 7140000 | C2930749 | |
| SRT | C-B0300 | Radiopaque medium | 7140000 | C2930749 | |
| SRT | C-B0312 | Non radiopaque medium | 43538006 | C0301446 | |
| SRT | C-B0315 | Bunamiodyl | 90745007 | C0623554 | |
| SRT | C-B0316 | Chloriodized oil | 62442005 | C0301444 | |
| SRT | C-B0317 | Diatrizoate | 12335007 | C0012004 | Angiovis TM (Berlex), Cardiografin TM (Bracco), Cystografin TM (Bracco), Gastrogratin TM (Bracco), Gastrovist TM (Berlex), Hypaque TM (GE), MD-nn TM (Mallinckrodt), Reno-nn TM (Bracco), Renografin TM (Bracco), Renovist TM (Bracco), Sinografin TM (Bracco), Urovis TM (Berlex) |
| SRT | C-B0318 | Iodipamide | 73212002 | C0021971 | Cholographin TM (Bracco), Sinografin TM (Bracco) |
| SRT | C-B0319 | Iodized oil | 89595000 | C0021972 | |
| SRT | C-B0323 | Iodoalphonic acid | 86584005 | C0063766 | |
| SRT | C-B0324 | Meglumine iodipamide | 69783005 | C0065885 | Cholographin Meglumine TM (Bracco) |
| SRT | C-B0325 | Sodium iodipamide | 925002 | C0301445 | Cholographin Sodium TM (Bracco) |
| SRT | C-B0326 | Iodamide meglumine | 12801003 | C0065884 | Renovue TM (Bracco) |
| SRT | C-B0327 | Iodopyracet | 40710000 | C0021990 | |
| SRT | C-B0328 | Iopanoic acid | 76155001 | C0022028 | Telepaque TM (GE) |
| SRT | C-B0331 | Iophendylate | 28121005 | C0022029 | Pantopaque TM (Alcon) |
| SRT | C-B0333 | Iophenoxic acid | 23053002 | C0063816 | |
| SRT | C-B0335 | Iodate | 87445005 | C0022049 | Bilivist TM (Berlex), Oragrafin TM (Bracco) |
| SRT | C-B0337 | Propylidone | 111158001 | C0033509 | Dionosil TM (GSK) |
| SRT | C-B0338 | Sodium acetrizoate | 32836007 | C0546847 | Salpix TM (Ortho) |
| SRT | C-B0341 | Iodophthalein | 74554008 | C0163095 | |
| SRT | C-B0342 | Sodium diprotrizoate | 83423008 | C0301447 | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Trade Name (Informative) |
|--------------------------|------------|------------------------------------|----------------------|------------------------|--|
| SRT | C-B0344 | Sodium iodomethamate | 38344006 | C0301448 | |
| SRT | C-B0345 | Meglumine diatrizoate | 47192000 | C0012005 | Angiovis TM (Berlex), Cardiografin TM (Bracco), Cystografin TM (Bracco), Gastrografen TM (Bracco), Gastrovis TM (Berlex), Hypaque TM (GE), MD-nn TM (Mallinckrodt), Reno-nn TM (Bracco), Renografin TM (Bracco), Renovist TM (Bracco), Sinografin TM (Bracco), Urovis TM (Berlex) |
| SRT | C-B0347 | Sodium diatrizoate | 24891006 | C0012007 | Angiovis TM (Berlex), Gastrografen TM (Bracco), Gastrovis TM (Berlex), Hypaque TM (GE), MD-nn TM (Mallinckrodt), Renografin TM (Bracco), Renovist TM (Bracco), Urovis TM (Berlex) |
| SRT | C-B0348 | Metrizamide | 90733003 | C0025869 | Amipaque TM (GE) |
| SRT | C-B0314 | Sodium tyropanoate | 109212003 | C0936260 | |
| SRT | C-B0301 | Ionic iodinated contrast agent | 96387000 | C0361904 | |
| DCM | 127855 | Non-ionic iodinated contrast agent | | C0521968 | |
| SRT | C-B0322 | Iohexol | 109218004 | C0022005 | Omnipaque TM (GE) |
| SRT | C-B03BC | Iodixanol | 353962003 | C0063757 | Visipaque TM (GE) |
| SRT | C-B03C3 | Gadodiamide | 354088005 | C0082646 | Omniscan TM (GE) |
| SRT | C-B05A3 | Mangafodipir trisodium | 410873007 | C0067297 | Teslascan TM (GE) |
| SRT | C-B038B | Iothalamate | 353912008 | C0022032 | Conray TM (Mallinckrodt), Cysto-Conray TM (Mallinckrodt), Vascoray TM (Mallinckrodt) |
| SRT | C-B0339 | Ioxaglate | 109223004 | C0205807 | Hexbrix TM (Mallinckrodt) |
| SRT | C-B03C9 | Metrizoate | 354094002 | C0025870 | Isopaque TM (GE) |
| SRT | C-B014D | Gadopentetate dimeglumine | 404846007 | C0060934 | Magnevist TM (Berlex) |
| SRT | C-B0329 | Iopamidol | 109219007 | C0022026 | Isovue TM (Bracco) |
| SRT | C-B0332 | Ioversol | 109222009 | C0063828 | Optiray TM (Mallinckrodt) |
| SRT | C-B0382 | Iopromide | 353903006 | C0063817 | Ultravist or Imeron |
| SRT | C-B0303 | Ioxilan | 409484007 | C0063829 | Imagenil |

Note

- The codes drawn from SNOMED are recommended to be those from the concept hierarchy of "radiographic contrast media" in the hierarchy "pharmaceutical/biological product", and secondarily from the hierarchy "substance".

- Trade names are from <http://www.accessdata.fda.gov/scripts/cder/drugsatfda/index.cfm>.

CID 13 Radiographic Contrast Agent Ingredient

Type: Extensible
Version: 20051101

Table CID 13. Radiographic Contrast Agent Ingredient

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | C-11400 | Iodine | 44588005 | C0021968 |
| SRT | C-17800 | Gadolinium | 58281002 | C0016911 |
| SRT | C-10520 | Carbon Dioxide | 31811003 | C0007012 |
| SRT | C-12200 | Barium | 39290007 | C0004749 |
| SRT | C-17200 | Xenon | 83598005 | C0043339 |
| SRT | A-80230 | Air | 15158005 | C0001861 |
| SRT | C-10110 | Oxygen | 24099007 | C0030054 |
| SRT | C-10120 | Water | 11713004 | C0043047 |
| SRT | C-130F9 | Iron | 105840005 | C0303213 |

CID 18 Isotopes in Radiopharmaceuticals

Type: Extensible
Version: 20141110

Table CID 18. Isotopes in Radiopharmaceuticals

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | C-105A2 | ¹⁴ C ¹⁴ Carbon | 71647005 | C0302945 |
| SRT | C-111A1 | ¹⁸ F ¹⁸ Fluorine | 77004003 | C0302995 |
| SRT | C-155A1 | ²² Na ²² Sodium | 71633006 | C0303511 |
| SRT | C-155A2 | ²⁴ Na ²⁴ Sodium | 58541008 | C0303512 |
| SRT | C-106A1 | ³² P ³² Phosphorus | 32505007 | C0851287 |
| SRT | C-135A2 | ⁴² K ⁴² Potassium | 59844004 | C0303277 |
| SRT | C-135A3 | ⁴³ K ⁴³ Potassium | 8202008 | C0303278 |
| SRT | C-129A2 | ⁵¹ Cr ⁵¹ Chromium | 52745005 | C0303212 |
| SRT | C-144A3 | ⁵⁷ Co ⁵⁷ Cobalt | 27054007 | C0303392 |
| SRT | C-144A4 | ⁵⁸ Co ⁵⁸ Cobalt | 89272005 | C0303393 |
| SRT | C-130A3 | ⁵⁹ Fe ⁵⁹ Iron | 68580003 | C0303220 |
| SRT | C-144A6 | ⁶⁰ Co ⁶⁰ Cobalt | 5405008 | C0303395 |
| SRT | C-127A2 | ⁶⁴ Cu ⁶⁴ Copper | 3932008 | C0303190 |
| SRT | C-127A3 | ⁶⁷ Cu ⁶⁷ Copper | 53700003 | C0303191 |
| SRT | C-131A2 | ⁶⁷ Ga ⁶⁷ Gallium | 2008008 | C0303225 |
| SRT | C-116A3 | ⁷⁵ Se ⁷⁵ Selenium | 43239002 | C0303048 |
| SRT | C-173A5 | ^{81m} Kr ^{81m} Krypton | 61716009 | C0303689 |
| SRT | C-173A7 | ⁸⁵ Kr ⁸⁵ Krypton | 34127007 | C0303691 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | C-158A3 | ^85^Strontium | 111084009 | C0303544 |
| SRT | C-158A5 | ^87m^Strontium | 78023008 | C0303546 |
| SRT | C-158A6 | ^89^Strontium | 7770004 | C0281385 |
| SRT | C-162A7 | ^90^Yttrium | 14691008 | C0303596 |
| SRT | C-180A2 | ^97^Ruthenium | 23788009 | C0303730 |
| SRT | C-163A8 | ^99m^Technetium | 72454006 | C0303611 |
| SRT | C-145A4 | ^111^Indium | 56609000 | C0303403 |
| SRT | C-145A5 | ^113m^Indium | 48895003 | C0303404 |
| SRT | C-114A4 | ^123^Iodine | 21572004 | C0303023 |
| SRT | C-114A6 | ^125^Iodine | 68630002 | C0796396 |
| SRT | C-172A5 | ^127^Xenon | 27081007 | C0303677 |
| SRT | C-114B1 | ^131^Iodine | 1368003 | C0303029 |
| SRT | C-122A5 | ^133^Barium | 3027009 | C0303126 |
| SRT | C-172A8 | ^133^Xenon | 80751004 | C0872916 |
| SRT | C-178A8 | ^153^Gadolinium | 14529005 | C0303714 |
| SRT | C-B1134 | ^153^Samarium | 419804008 | C0677942 |
| SRT | C-181A3 | ^169^Ytterbium | 41758004 | C0303739 |
| SRT | C-101ED | ^177^Lutetium | 447553000 | C2959378 |
| SRT | C-156A6 | ^178^Tantalum | 6301006 | C0303521 |
| SRT | C-11906 | ^186^Rhenium | 395865006 | C1273039 |
| SRT | C-1018D | ^188^Rhenium | 423578007 | C1828331 |
| DCM | 126604 | ^191m^Iridium | | |
| SRT | C-146A9 | ^198^Gold | 24301009 | C0303420 |
| SRT | C-146B1 | ^199^Gold | 70544003 | C0303421 |
| SRT | C-138A9 | ^201^Thallium | 60057003 | C0303322 |
| SRT | C-132A8 | ^203^Lead | 47588004 | C0303240 |
| SRT | C-136A2 | ^223^Radium | 24853006 | C0303282 |

Note

The use of this Context Group in the Radionuclide Code Sequence (0054,0300) of the "Nuclear Medicine Image IOD" in PS3.3 requires a Coding Scheme Designator value of "99SDM".

CID 19 Patient Orientation

Type: Extensible
Version: 20160314

Table CID 19. Patient Orientation

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| NCIt | C86043 | erect | | C0522015 |
| SRT | F-10450 | recumbent | 102538003 | C0444334 |
| SRT | F-10460 | semi-erect | 102539006 | C0522018 |

Note

1. The use of this Context Group in the Patient Orientation Code Sequence (0054,0410) of the "Nuclear Medicine Image IOD" in PS3.3 and the "Positron Emission Tomography Image IOD" in PS3.3 requires a Coding Scheme Designator value of "99SDM".
2. In a prior version of this Context Group (F-10440, SRT, "Upright body position (finding)") was specified for the concept "erect" but has been inactivated as being ambiguous, with no suitable replacement. Accordingly the NCIt concept of "upright" defined as "in a vertical position or posture" is used as a replacement.

CID 20 Patient Orientation Modifier

Type: Extensible
Version: 20070524

Table CID 20. Patient Orientation Modifier

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | F-10310 | prone | 1240000 | C0033422 |
| SRT | F-10316 | semi-prone | 34026001 | C0150435 |
| SRT | F-10318 | lateral decubitus | 32185000 | C0444379 |
| SRT | F-10320 | standing | 10904000 | C0231472 |
| SRT | F-10326 | anatomical | 51845000 | C0277809 |
| SRT | F-10330 | kneeling | 55864004 | C1260920 |
| SRT | F-10336 | knee-chest | 23242002 | C0277810 |
| SRT | F-10340 | supine | 40199007 | C0038846 |
| SRT | F-10346 | lithotomy | 14205002 | C0150665 |
| SRT | F-10348 | Trendelenburg | 34106002 | C0277812 |
| SRT | F-10349 | inverse Trendelenburg | 26527006 | C0277813 |
| SRT | F-10380 | frog | 34296003 | C0426962 |
| SRT | F-10390 | stooped-over | 87068006 | C0231478 |
| SRT | F-103A0 | sitting | 33586001 | C0277814 |
| SRT | F-10410 | curled-up | 34108001 | C0277815 |
| SRT | F-10317 | right lateral decubitus | 102535000 | C0559228 |
| SRT | F-10319 | left lateral decubitus | 102536004 | C0559227 |
| SRT | R-40799 | lordotic | 260450008 | C0442217 |

Note

The use of this Context Group in the Patient Orientation Modifier Code Sequence (0054,0412) of the "Nuclear Medicine Image IOD" in PS3.3 and the "Positron Emission Tomography Image IOD" in PS3.3 requires a Coding Scheme Designator value of "99SDM".

CID 21 Patient Equipment Relationship

Type: Extensible
Version: 20151110

Table CID 21. Patient Equipment Relationship

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | R-10516 | oblique | 399366008 | C1302343 |
| SRT | F-10470 | headfirst | 102540008 | C0522020 |
| SRT | F-10480 | feet-first | 102541007 | C0522022 |
| SRT | R-10515 | transverse | 399220000 | C1302259 |
| DCM | 126830 | left first | | |
| DCM | 126831 | right first | | |
| DCM | 126832 | posterior first | | |
| DCM | 126833 | anterior first | | |

Note

1. The use of this Context Group in the Patient Orientation Modifier Code Sequence (0054,0412) of the "Nuclear Medicine Image IOD" in PS3.3 and the "Positron Emission Tomography Image IOD" in PS3.3 requires a Coding Scheme Designator value of "99SDM".
2. In a prior version of this Context Group, the codes G-5190 and G-5191 were specified for the concepts "headfirst" and "feet-first". The use of these codes is deprecated as they are not actually in SNOMED. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.
3. For devices that do not have a conventional gantry geometry, the vendor of that device may describe in the Conformance Statement how the codes are interpreted with respect to the device geometry.
4. (126830, DCM, "left first"), (126831, DCM, "right first"), (126832, DCM, "posterior first") and (126833, DCM, "anterior first") are more specific than (R-10515, SRT, "transverse") in that they specify which side of the patient is towards the front of the equipment.
5. For quadrupeds, separate concepts for ventral and dorsal are not introduced, rather it is expected that anterior and posterior will be considered synonymous as they are when applied to the trunk.

CID 23 Cranio-Caudad Angulation

Type: Extensible
Version: 20020904

Table CID 23. Cranio-Caudad Angulation

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A107 | Cephalic | 66787007 | C0205096 |
| SRT | G-A108 | Caudal | 3583002 | C0205097 |

CID 25 Radiopharmaceuticals

Type: Extensible
Version: 20160314

Table CID 25. Radiopharmaceuticals

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Trade name (Informative) |
|---------------------------------|-------------------|--|-----------------------------|-------------------------------|---------------------------------|
| SRT | C-B1302 | Carbon ¹⁴ D-xylose | 2942001 | C0305043 | |
| SRT | C-B1300 | Carbon ¹⁴ triolein | 42417005 | C0305042 | |
| SRT | C-B1304 | Cholyl-carbon ¹⁴ glycine | 70086001 | C0305044 | |
| SRT | C-B1140 | Chromic phosphate P ³² | 17069007 | C0392428 | |
| SRT | C-B1012 | Chromium ⁵¹ albumin | 4693006 | C0304956 | |
| SRT | C-B1013 | Chromium ⁵¹ chloride | 6973004 | C0304957 | |
| SRT | C-B1051 | Colloidal gold Au ¹⁹⁸ | 37947008 | C0304966 | |
| SRT | C-B1063 | Colloidal Indium ¹¹¹ | 30825005 | C0304969 | |
| SRT | C-B1017 | Copper ⁶⁴ acetate | 78686003 | C0304959 | |
| SRT | C-B1016 | Copper ⁶⁴ versenate | 88166005 | C0304958 | |
| SRT | C-B1018 | Copper ⁶⁷ ceruloplasmin | 29460005 | C0304960 | |
| SRT | C-B1021 | Cyanocobalamin Co ⁵⁷ | 187006 | C0304961 | |
| SRT | C-B1022 | Cyanocobalamin Co ⁵⁸ | 5692007 | C0304962 | |
| SRT | C-B1023 | Cyanocobalamin Co ⁶⁰ | 72159005 | C0304963 | |
| SRT | C-B1000 | Diagnostic radioisotope | 17600005 | C0360048 | |
| SRT | C-B1092 | Diodofluorecein I ¹³¹ | 53207004 | C0304989 | |
| SRT | C-B1062 | Disodium indium ¹¹¹ | 56475001 | C0304968 | |
| SRT | C-B1122 | Ferrous chloride Fe ⁵⁹ | 31192007 | C0305004 | |
| SRT | C-B1121 | Ferrous citrate Fe ⁵⁹ | 87958003 | C0305003 | |
| SRT | C-B1123 | Ferrous sulfate Fe ⁵⁹ | 125001 | C0305005 | |
| SRT | C-B1082 | Fibrinogen I ¹²³ | 71636003 | C0304978 | |
| SRT | C-B1031 | Fluorodeoxyglucose F ¹⁸ | 35321007 | C0046056 | |
| SRT | C-B1041 | Gallium ⁶⁷ citrate | 73065000 | C0893383 | |
| SRT | C-145AB | Indium ¹¹¹ Capromab Pendetide | 446871009 | C2959379 | Prostascint |
| SRT | C-14512 | Indium ¹¹¹ Chloride | 395742005 | C0087296 | Zevalin |
| SRT | C-145AA | Indium ¹¹¹ Pentetate | 446800006 | C0379955 | Octreoscan |
| SRT | C-B1061 | Indium ¹¹¹ pentetate | 29218008 | C0304967 | |
| SRT | C-B1066 | Indium ¹¹¹ red cell label | 81621007 | C0304971 | |
| SRT | C-B1067 | Indium ¹¹¹ transferrin | 78570003 | C0936259 | |
| SRT | C-B1065 | Indium ¹¹¹ -Fe(OH) ₃ | 6516008 | C0304970 | |
| SRT | C-B1135 | Indium ¹¹¹ oxyquinoline | 424570009 | C1827660 | |
| SRT | C-B1068 | Indium ^{113m} bleomycin | 90617008 | C0304972 | |
| SRT | C-B1069 | Indium ^{113m} chloride | 21451004 | C0361440 | |
| SRT | C-B1072 | Indium ^{113m} oxoquinoline platelet label | 56006008 | C0304975 | |
| SRT | C-B1073 | Indium ^{113m} oxoquinoline RBC label | 56867003 | C0304976 | |
| SRT | C-B1071 | Indium ^{113m} oxoquinoline WBC label | 77510008 | C0304974 | |
| SRT | C-B1070 | Indium ^{113m} pentetate | 42728008 | C0304973 | |
| SRT | C-B1084 | Iodinated I ¹²⁵ albumin | 72015003 | C0304980 | |
| SRT | C-B1100 | Iodinated I ¹²⁵ human serum albumin | 64488003 | C0304997 | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Trade name (Informative) |
|--------------------------|------------|---|----------------------|------------------------|--------------------------|
| SRT | C-B1094 | Iodinated I ¹²⁵ levothyroxine | 80260008 | C0304991 | |
| SRT | C-B1093 | Iodinated I ¹²⁵ oleic acid and triolein | 73745003 | C0304990 | |
| SRT | C-B1096 | Iodinated I ¹²⁵ povidone | 69839009 | C0304993 | |
| SRT | C-B1097 | Iodinated I ¹²⁵ Rose Bengal | 21378001 | C0304994 | |
| SRT | C-B1098 | Iodinated I ¹²⁵ sealed source | 37437001 | C0304995 | |
| SRT | C-B1099 | Iodinated I ¹²⁵ sodium iodine | 70154008 | C0304996 | |
| SRT | C-B1090 | Iodinated I ¹³¹ aggregated albumin | 55814006 | C0304986 | |
| SRT | C-B1089 | Iodinated I ¹³¹ albumin | 39200002 | C0304985 | |
| SRT | C-B1111 | Iodinated I ¹³¹ gamma globulin | 52408003 | C0305002 | |
| SRT | C-114AB | Iodine ¹²³ 15-(4-Iodophenyl)-3(R,S)-Methylpentadecanoic Acid | 447134003 | C2959625 | Cardiodine |
| SRT | C-B110E | Iodine ¹²³ 3-Iodobenzylguanidine MIBG | 395787009 | C0887719 | |
| SRT | C-B112D | Iodine ¹³¹ 3-Iodobenzylguanidine MIBG | 395789007 | C0524959 | |
| SRT | C-114B6 | Iodine ¹³¹ Methylnorcholestenol | 446531006 | C2960809 | Adosterol |
| SRT | C-B1109 | Iodine ¹³¹ polyvinylpyrrolidone | 35884005 | C0305001 | |
| SRT | C-B1087 | Iodocholesterol I ¹³¹ | 68967007 | C0304983 | |
| SRT | C-B1095 | Iodohippurate I ¹²³ sodium | 33785000 | C0304992 | |
| SRT | C-B1105 | Iodohippurate I ¹²⁵ sodium | 36900006 | C0304998 | |
| SRT | C-B1091 | Iodohippurate I ¹³¹ sodium | 33271006 | C0304987 | |
| SRT | C-B1108 | Iofetamine I ¹²³ hydrochloride | 78481003 | C0305000 | |
| SRT | C-B1088 | Iothalamate sodium I ¹²⁵ | 55673009 | C0304984 | |
| SRT | C-B1124 | Iron Fe ⁵⁹ labeled dextran | 60459006 | C0305006 | |
| SRT | C-173A5 | Krypton ^{81m} | 61716009 | C0303689 | |
| SRT | C-B1083 | Oleic acid I ¹²⁵ | 22979004 | C0304979 | |
| SRT | C-B1251 | Pentetate calcium trisodium Yb ¹⁶⁹ | 29348008 | C0305041 | |
| SRT | C-B1151 | Potassium carbonate K ⁴² | 111161000 | C0305009 | |
| SRT | C-B1152 | Potassium chloride K ⁴² | 36641004 | C0305010 | |
| SRT | C-B1150 | Potassium chloride K ⁴³ | 47729008 | C0305008 | |
| SRT | C-B1085 | Rose Bengal sodium I ¹³¹ | 111159009 | C0282340 | |
| SRT | C-B1172 | Selenium ⁷⁵ HCAT | 13626001 | C0046666 | |
| SRT | C-B1171 | Selenomethionine Se ⁷⁵ | 88473009 | C0034616 | |
| SRT | C-B1176 | Sodium chloride Na ²² | 6257000 | C0205951 | |
| SRT | C-B1175 | Sodium chloride Na ²⁴ | 31527000 | C0305013 | |
| SRT | C-B1011 | Sodium chromate Cr ⁵¹ | 62517004 | C0304955 | |
| SRT | C-B1032 | Sodium fluoride F ¹⁸ | 129501009 | C0304965 | |
| SRT | C-B1081 | Sodium iodide I ¹²³ | 67690002 | C0304977 | |
| SRT | C-B1086 | Sodium iodide I ¹³¹ | 111160004 | C0304982 | |
| SRT | C-B1206 | Sodium pertechnetate Tc ^{99m} | 19495007 | C0039418 | |
| SRT | C-B1142 | Sodium phosphate P ³² | 10781003 | C0305007 | |
| SRT | C-B1180 | Strontium chloride Sr ⁸⁵ | 69076006 | C0305015 | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Trade name (Informative) |
|--------------------------|------------|---|----------------------|------------------------|--------------------------|
| SRT | C-B1181 | Strontium chloride Sr ⁸⁷ [^] | 38424001 | C0305016 | |
| SRT | C-B1182 | Strontium nitrate Sr ⁸⁵ [^] | 8858006 | C0305017 | |
| SRT | C-B1183 | Strontium nitrate Sr ⁸⁷ [^] | 31953001 | C0305018 | |
| SRT | C-B1205 | Technetium Tc ^{99c} [^] albumin microspheres | 55494003 | C0305022 | |
| SRT | C-B1200 | Technetium Tc ^{99m} [^] aggregated albumin | 85693008 | C0039415 | |
| SRT | C-B1204 | Technetium Tc ^{99m} [^] albumin colloid | 16011006 | C0305021 | |
| SRT | C-B1133 | Technetium Tc ^{99m} [^] depreotide | 415704007 | C1100674 | |
| SRT | C-B1207 | Technetium Tc ^{99m} [^] disofenin | 3040004 | C0075932 | |
| SRT | C-B1223 | Technetium Tc ^{99m} [^] exametazine | 77313009 | C0145055 | |
| SRT | C-B1210 | Technetium Tc ^{99m} [^] iron ascorbate | 87853006 | C0305027 | |
| SRT | C-B1209 | Technetium Tc ^{99m} [^] lidofenin | 7281000 | C0075958 | |
| SRT | C-B1208 | Technetium Tc ^{99m} [^] mebrofenin | 4832001 | C0075962 | |
| SRT | C-B1218 | Technetium Tc ^{99m} [^] medronate | 96390006 | C0039416 | |
| SRT | C-B1203 | Technetium Tc ^{99m} [^] microaggregated albumin | 81761004 | C0305020 | |
| SRT | C-B1225 | Technetium Tc ^{99m} [^] N-substituted iminodiacetate | 87410002 | C0305039 | |
| SRT | C-B1213 | Technetium Tc ^{99m} [^] oxidronate | 53951001 | C0305030 | |
| SRT | C-163B0 | Technetium Tc ^{99m} [^] pentetate | 430276001 | C0080212 | |
| SRT | C-B1215 | Technetium Tc ^{99m} [^] pyro and polyphosphates | 65156006 | C0305032 | |
| SRT | C-B1216 | Technetium Tc ^{99m} [^] serum albumin | 79610008 | C0665175 | |
| SRT | C-163AB | Technetium Tc ^{99m} [^] sestamibi | 424299003 | C0162680 | |
| SRT | C-B1220 | Technetium Tc ^{99m} [^] sodium glucoheptonate | 45849009 | C0305034 | |
| SRT | C-B1211 | Technetium Tc ^{99m} [^] stannous etidronate | 111162007 | C0305028 | |
| SRT | C-B1221 | Technetium Tc ^{99m} [^] succimer | 24511001 | C0075928 | |
| SRT | C-B1222 | Technetium Tc ^{99m} [^] sulfur colloid | 5931004 | C0039419 | |
| SRT | C-B1224 | Technetium Tc ^{99m} [^] tagged red cells | 89818005 | C0305038 | |
| SRT | C-163AC | Technetium Tc ^{99m} [^] Teboroxime | 424318009 | C0076030 | |
| SRT | C-163AD | Technetium Tc ^{99m} [^] Tetrofosmin | 424118002 | C1828125 | |
| SRT | C-163BD | Technetium ^{99m} Dimercaptosuccinic Acid DMSA | 447201007 | C0075928 | Kidneyscinti |
| SRT | C-163B6 | Technetium ^{99m} Galactosyl Human Serum Albumin Diethylenetriamine | 446534003 | C2960066 | Asialoscinti |
| SRT | C-163B7 | Technetium ^{99m} Hydroxymethylene diphosphonate HMDP | 446535002 | C0075953 | |
| SRT | C-163B9 | Technetium ^{99m} labeled carbon | 447125008 | C2960082 | Technegas |
| SRT | C-163B8 | Technetium ^{99m} Mercaptoacetyl triglycine MAG3 | 446536001 | C2960081 | MAGscinti |
| SRT | C-163BA | Technetium ^{99m} N-pyridoxyl-5-methyltryptophan | 447126009 | C2960810 | Hepatimage |
| SRT | C-163BB | Technetium ^{99m} Phytate | 447127000 | C2960676 | |
| SRT | C-163BC | Technetium ^{99m} Stannous Colloid | 447128005 | C2960677 | |
| SRT | C-B1231 | Thallous chloride TI ²⁰¹ [^] | 73685002 | C0305040 | |
| SRT | C-B1010 | Therapeutic radioisotope | 439007 | C0358509 | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Trade name (Informative) |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|--------------------------|
| SRT | C-B1251 | Yb ¹⁶⁹ -DTPA - pentetate | 29348008 | C0305041 | |

CID 26 Nuclear Medicine Projections

Type: Extensible
Version: 20040322

Table CID 26. Nuclear Medicine Projections

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------------------|----------------------|------------------------|
| SRT | G-A138 | Coronal | 81654009 | C0205123 |
| SRT | G-A145 | Sagittal | 30730003 | C0205129 |
| SRT | G-A147 | Axial | 24422004 | C0205131 |
| SRT | G-5206 | Right anterior oblique | 399108003 | C1275818 |
| SRT | G-5207 | Left anterior oblique | 399074003 | C1275814 |
| SRT | G-5208 | Right posterior oblique | 399075002 | C1275815 |
| SRT | G-5209 | Left posterior oblique | 399136008 | C1275824 |
| SRT | G-5210 | Oblique axial | 399089007 | C1275817 |
| SRT | G-5212 | Sagittal-oblique axial | 399273000 | C1275844 |
| SRT | G-5220 | Medial-lateral | 399012007 | C1275804 |
| SRT | G-5221 | Lateral-medial | 399300004 | C1275847 |
| SRT | G-5222 | Right lateral projection | 399297009 | C1261185 |
| SRT | G-5223 | Left lateral projection | 399118008 | C1306031 |
| SRT | G-5224 | Medio-lateral oblique | 399268006 | C1275843 |
| SRT | G-5225 | Latero-medial oblique | 399159002 | C1275827 |
| SRT | G-A117 | Transverse | 62824007 | C0205106 |
| SRT | G-A104 | Lateral | 49370004 | C0205093 |
| <i>Include CID 27 "Basic Cardiac Views"</i> | | | | |
| SRT | G-5215 | Anterior projection | 399321004 | C1275849 |
| SRT | G-5216 | Posterior projection | 399001007 | C1275801 |

Note

- In a prior version of this table, the code G-A117 was specified for the concept Transaxial, and R-11300 was specified for the concept Transverse. Since these concepts are synonymous in nuclear projections, and since SNOMED assigns G-A117 to the concept Transverse, the use of R-11300 is deprecated. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.
- The following Code Values were formerly included in CID 26 "Nuclear Medicine Projections" and are retired:

| | | |
|-----|--------|--------------------------|
| SRT | G-5200 | Antero-posterior |
| SRT | G-5201 | Postero-anterior |
| SRT | G-5203 | Frontal oblique |
| SRT | G-5204 | Antero-posterior Oblique |

| | | |
|------------|---------------|---------------------------------|
| <i>SRT</i> | <i>G-5205</i> | <i>Postero-anterior Oblique</i> |
| <i>SRT</i> | <i>G-5211</i> | <i>Frontal-oblique axial</i> |
| <i>SRT</i> | <i>G-5213</i> | <i>Submento-vertex axial</i> |
| <i>SRT</i> | <i>G-5214</i> | <i>Oblique submento-vertex</i> |
| <i>SRT</i> | <i>G-5226</i> | <i>Right to left oblique</i> |
| <i>SRT</i> | <i>G-5227</i> | <i>Left to right oblique</i> |

CID 27 Basic Cardiac Views

Type: Extensible
Version: 20120822

Table CID 27. Basic Cardiac Views

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | G-A186 | Short Axis | 103340004 | C0522488 |
| SRT | G-A18A | Vertical Long Axis | 131185001 | C1295721 |
| SRT | G-A18B | Horizontal Long Axis | 131186000 | C1295722 |

CID 29 Acquisition Modality

This Context Group includes codes that may be used to identify an image or waveform acquisition modality, as used in Attribute Modality (0008,0060) of a Modality Worklist Scheduled Procedure Step or a Composite SOP Instance (see PS3.3). It generally corresponds to a class of diagnostic equipment, or to a specific acquisition function or technique in a device. This Context Group may be used as the value set for HL7 v2 Table 0259 (see HL7 v2.6 Chapter 8 Section 8.8.47).

Note

This Context Group is not the complete set of codes that may appear in the Attribute Modality (0008,0060); these are only the codes associated with orderable acquisition processes (not post-processing).

Type: Extensible
Version: 20121129

Table CID 29. Acquisition Modality

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------|
| DCM | AR | Autorefraction |
| DCM | BMD | Bone Mineral Densitometry |
| DCM | BDUS | Ultrasound Bone Densitometry |
| DCM | EPS | Cardiac Electrophysiology |
| DCM | CR | Computed Radiography |
| DCM | CT | Computed Tomography |
| DCM | DX | Digital Radiography |
| DCM | ECG | Electrocardiography |
| DCM | ES | Endoscopy |
| DCM | XC | External-camera Photography |
| DCM | GM | General Microscopy |
| DCM | HD | Hemodynamic Waveform |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | IO | Intra-oral Radiography |
| DCM | IVOCT | Intravascular Optical Coherence Tomography |
| DCM | IVUS | Intravascular Ultrasound |
| DCM | KER | Keratometry |
| DCM | LEN | Lensometry |
| DCM | MR | Magnetic Resonance |
| DCM | MG | Mammography |
| DCM | NM | Nuclear Medicine |
| DCM | OAM | Ophthalmic Axial Measurements |
| DCM | OCT | Optical Coherence Tomography |
| DCM | OPM | Ophthalmic Mapping |
| DCM | OP | Ophthalmic Photography |
| DCM | OPR | Ophthalmic Refraction |
| DCM | OPT | Ophthalmic Tomography |
| DCM | OPV | Ophthalmic Visual Field |
| DCM | OSS | Optical Surface Scanner |
| DCM | PX | Panoramic X-Ray |
| DCM | PT | Positron emission tomography |
| DCM | RF | Radiofluoroscopy |
| DCM | RG | Radiographic imaging |
| DCM | SM | Slide Microscopy |
| DCM | SRF | Subjective Refraction |
| DCM | US | Ultrasound |
| DCM | VA | Visual Acuity |
| DCM | XA | X-Ray Angiography |

CID 30 DICOM Devices

This Context Group includes codes that may be used to identify a class of equipment that uses DICOM.

Type: Extensible
Version: 20030108

Table CID 30. DICOM Devices

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|---------------------------------------|
| <i>Include CID 29 "Acquisition Modality"</i> | | |
| DCM | ARCHIVE | Archive |
| DCM | COMP | Computation Server |
| DCM | CAD | Computer Assisted Detection/Diagnosis |
| DCM | DSS | Department System Scheduler |
| DCM | FILMD | Film Digitizer |
| DCM | MCD | Media Creation Device |
| DCM | PRINT | Hard Copy Print Server |
| DCM | CAPTURE | Image Capture |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | LOG | Procedure Logging |
| DCM | RT | Radiation Therapy Device |
| DCM | WSD | Workstation |

CID 31 Abstract Priors

This Context Group includes codes that may be used to identify imaging procedures that may be referred to as priors for the purpose of image set selection in Hanging Protocols.

Type: Extensible
Version: 20060126

Table CID 31. Abstract Priors

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | G-7292 | On admission | 128954007 | C1292431 |
| SRT | R-400B2 | Intraoperative | 277671009 | C0456904 |
| SRT | R-41FD9 | Pre-admission | 281379000 | C0559269 |
| SRT | R-411C0 | Pre-dose | 255235001 | C0439565 |
| SRT | R-404DA | Post-dose | 255566006 | C0439568 |
| SRT | R-413C5 | Pre-operative | 262068006 | C0445204 |
| SRT | R-413B7 | Post-operative | 262061000 | C0032790 |
| DCM | 109120 | On admission to unit | | |
| DCM | 109121 | On discharge | | |
| DCM | 109122 | On discharge from unit | | |
| DCM | 109123 | Pre-intervention | | |
| DCM | 109124 | Post-intervention | | |
| DCM | 109125 | At last appointment | | |

CID 42 Numeric Value Qualifier

Type: Extensible
Version: 20020114

Table CID 42. Numeric Value Qualifier

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------------|
| DCM | 114000 | Not a number |
| DCM | 114001 | Negative Infinity |
| DCM | 114002 | Positive Infinity |
| DCM | 114003 | Divide by zero |
| DCM | 114004 | Underflow |
| DCM | 114005 | Overflow |
| DCM | 114006 | Measurement failure |
| DCM | 114007 | Measurement not attempted |
| DCM | 114008 | Calculation failure |
| DCM | 114009 | Value out of range |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------|
| DCM | 114010 | Value unknown |
| DCM | 114011 | Value indeterminate |

CID 50 Instance Availability Status

Type: Non-Extensible
Version: 20090616

Table CID 50. Instance Availability Status

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|-------------|--------------|
| DCM | NEARLINE | Nearline |
| DCM | OFFLINE | Offline |
| DCM | ONLINE | Online |
| DCM | UNAVAILABLE | Unavailable |

CID 82 Units of Measurement

Context Group ID 82 comprises the case-sensitive codes of UCUM. See Section 7.2.2.

Note

Equivalent to the HL7 Value Set "Units of Measure case sensitive" 2.16.840.1.113883.11.12839.

CID 83 Units for Real World Value Mapping

Type: Extensible
Version: 20080123

Table CID 83. Units for Real World Value Mapping

| Coding Scheme Designator | Code Value | Code Meaning |
|-----------------------------------|------------|-----------------|
| <i>Include CID 84 "PET Units"</i> | | |
| UCUM | [hnsfU] | Hounsfield unit |

CID 84 PET Units

Type: Extensible
Version: 20141110

Table CID 84. PET Units

| Coding Scheme Designator | Code Value | Code Meaning |
|-----------------------------------|----------------|-----------------------------------|
| <i>Include CID 85 "SUV Units"</i> | | |
| UCUM | {counts} | Counts |
| UCUM | {counts}/s | Counts per second |
| UCUM | {propcounts} | Proportional to counts |
| UCUM | {propcounts}/s | Proportional to counts per second |
| UCUM | cm2 | Centimeter**2 |
| UCUM | % | Percent |
| UCUM | Bq/ml | Becquerels/milliliter |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|-------------|------------------------------|
| UCUM | mg/min/ml | Milligrams/minute/milliliter |
| UCUM | umol/min/ml | Micromole/minute/milliliter |
| UCUM | ml/min/g | Milliliter/minute/gram |
| UCUM | ml/g | Milliliter/gram |
| UCUM | /cm | /Centimeter |
| UCUM | umol/ml | Micromole/milliliter |

CID 85 SUV Units

Type: Extensible
Version: 20161106

Table CID 85. SUV Units

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------------------|---|
| UCUM | g/ml{SUVbw} | Standardized Uptake Value body weight |
| UCUM | g/ml{SUVlbm} | Standardized Uptake Value lean body mass (James) |
| UCUM | g/ml{SUVlbm(James128)} | Standardized Uptake Value lean body mass (James 128 multiplier) |
| UCUM | g/ml{SUVlbm(Janma)} | Standardized Uptake Value lean body mass (Janma) |
| UCUM | cm2/ml{SUVbsa} | Standardized Uptake Value body surface area |
| UCUM | g/ml{SUVibw} | Standardized Uptake Value ideal body weight |

Note

The formulas for the determination of SUVbw, SUVbsa, SUVlbm (James) and SUVibw are defined in Sugawara et al. *Re-evaluation of the Standardized Uptake Value for FDG: Variations with Body Weight and Methods for Correction*. Radiology, 1999 at <http://radiology.rsna.org/content/213/2/521>.

Unfortunately, Sugawara used a parameter of 120 rather than 128 for males, propagating an error in Morgan DJ, Bray KM. Lean Body Mass as a Predictor of Drug Dosage: Implications for Drug Therapy. *Clinical Pharmacokinetics*. 1994;26(4):292–307, which misquoted the original LBM definition that used 128 in James WPT, Waterlow JC. *Research on Obesity: A Report of the DHSS/MRC Group*. London: Her Majesty's Stationery Office; 1976. Implementations differ in whether they have used 120 or 128 for ({SUVlbm}g/ml{SUVlbm}, UCUM, "Standardized Uptake Value lean body mass (James)"). See Kelly M. SUV: Advancing Comparability and Accuracy. Siemens; 2009. Available from: http://www.mpcphysics.com/documents/SUV_Whitepaper_Final_11.17.09_59807428_2.pdf.

The Janmahasatian LBM formula is defined in Janmahasatian et al. *Quantification of Lean Bodyweight*. *Clin Pharmacokinet*. 2005 Oct 1;44(10):1051–65. at <http://dx.doi.org/10.2165/00003088-200544100-00004> and its role in SUVlbm(Janma) calculation is discussed in Tahari et al. *Optimum Lean Body Formulation for Correction of Standardized Uptake Value in PET Imaging*. *Journal of Nuclear Medicine*. 2014 Sep 1;55(9):1481–4. at <http://jnm.snmjournals.org/content/55/9/1481>. The patient size correction factors are summarized here, where weight is in kg and height is in cm:

SUVbw: males & females: weight

SUVlbm (James): males : $1.10 * \text{weight} - 120 * (\text{weight}/\text{height})^2$

SUVlbm (James): females: $1.07 * \text{weight} - 148 * (\text{weight}/\text{height})^2$

SUVlbm(Janma): males: $9.27E3 * \text{weight} / (6.68E3 + 216 * \text{weight} / (\text{height}^2))$

SUVlbm(Janma): females: $9.27E3 * \text{weight} / (8.78E3 + 244 * \text{weight} / (\text{height}^2))$

SUVbsa: males & females: $\text{weight}^0.425 * \text{height}^0.725 * 0.007184$

SUVibw: males: $48.0 + 1.06 * (\text{height} - 152)$

females: $45.5 + 0.91 * (\text{height} - 152)$

CID 91 Functional Condition Present During Acquisition

Type: Extensible
Version: 20100625

Table CID 91. Functional Condition Present During Acquisition

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|------------------|----------------------|------------------------|
| <i>Include CID 3271 "Hemodynamic Physiological Challenges"</i> | | | | |
| SRT | F-F7100 | Phonation | 43914001 | C0031577 |
| SRT | F-12300 | Weight bearing | 87731000 | C0231573 |
| SRT | F-72230 | Voiding | 28278009 | C0042034 |
| DCM | 109134 | Prior to voiding | | |
| DCM | 109135 | Post voiding | | |

CID 92 Joint Position During Acquisition

Type: Extensible
Version: 20100625

Table CID 92. Joint Position During Acquisition

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| DCM | 109136 | Neutral musculoskeletal position | | |
| SRT | F-10110 | Flexion | 9964006 | C0231452 |
| SRT | F-10100 | Extension | 24154002 | C0522009 |
| SRT | F-10120 | Abduction | 60074003 | C0231456 |
| SRT | F-10130 | Adduction | 11554009 | C0231457 |
| SRT | F-10210 | Internal rotation | 12852001 | C0231459 |
| SRT | F-10220 | External rotation | 52019005 | C0231462 |
| SRT | F-10226 | Supination | 14502000 | C0038845 |
| SRT | F-10216 | Pronation | 88241000 | C0033421 |
| SRT | F-10240 | Torsion | 51795009 | C0040480 |

CID 93 Joint Positioning Method

Type: Extensible
Version: 20100625

Table CID 93. Joint Positioning Method

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | F-13060 | Passive movement | 21278004 | C0079991 |
| SRT | P0-05083 | Manipulation of joint | 118745001 | C1292923 |

CID 94 Physical Force Applied During Acquisition

Type: Extensible
Version: 20100625

Table CID 94. Physical Force Applied During Acquisition

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | P0-02160 | Traction - action | 129411004 | C0040597 |
| SRT | P0-021B2 | Compression - action | 263720003 | C0565514 |
| SRT | P0-021AB | Rotation - action | 257912008 | C0677597 |

CID 100 Quantitative Diagnostic Imaging Procedures

Type: Extensible
Version: 20141110

Table CID 100. Quantitative Diagnostic Imaging Procedures

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | P5-09051 | Magnetic resonance imaging guidance | 258177008 | C0442974 |
| DCM | 126020 | Multiparametric MRI | | |
| DCM | 126021 | Multiparametric MRI of prostate | | |
| DCM | 126022 | Multiparametric MRI of whole body | | |
| SRT | P5-0907F | Dynamic magnetic resonance imaging of knee | 433139009 | C2315346 |
| SRT | P5-70694 | Dynamic magnetic resonance imaging of pelvis | 446315002 | C2960816 |
| LN | 44139-4 | PET whole body | | C1715409 |
| SRT | P5-080FF | PET/CT FDG imaging of whole body | 443271005 | C2732676 |
| SRT | P5-08118 | PET/CT MET imaging of whole body | 443844003 | C2732956 |
| RADLEX | RPID96 | CT head perfusion with IV contrast | | |
| RADLEX | RPID5258 | NM head perfusion brain SPECT | | |
| RADLEX | RPID5427 | NM head perfusion brain PET-CT AV-45 | | |

CID 220 Level of Significance

Type: Extensible
Version: 20030327

Table CID 220. Level of Significance

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | R-00333 | Most significant | 371925005 | C1299394 |
| SRT | R-0030C | Highly significant | 371926006 | C1299395 |
| SRT | R-10045 | Significant | 386134007 | C0750502 |
| SRT | R-00345 | Not significant | 371928007 | C1273937 |
| SRT | R-10046 | Significance Undetermined | 386135008 | C1272585 |

CID 221 Measurement Range Concepts

Type: Extensible
Version: 20030327

Table CID 221. Measurement Range Concepts

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| Include CID 226 "Population Statistical Descriptors" | | |
| Include CID 227 "Sample Statistical Descriptors" | | |

CID 222 Normality Codes

Type: Extensible
Version: 20030327

Table CID 222. Normality Codes

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | G-A460 | Normal | 17621005 | C0205307 |
| SRT | R-42037 | Abnormal | 263654008 | C0205161 |
| SRT | R-002C4 | Abnormally High | 371879000 | C1299351 |
| SRT | R-002C5 | Abnormally Low | 371880002 | C1299352 |
| SRT | G-A385 | Normality Undetermined | 82334004 | C0205258 |

CID 223 Normal Range Values

Type: Extensible
Version: 20030327

Table CID 223. Normal Range Values

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | R-0038B | Normal Range Upper Limit | 371933006 | C1299400 |
| SRT | R-10041 | Normal Range Lower Limit | 386124003 | C1272580 |

CID 224 Selection Method

Type: Extensible
Version: 20030327

Table CID 224. Selection Method

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | 121410 | User chosen value |
| DCM | 121411 | Most recent value chosen |
| DCM | 121412 | Mean value chosen |

CID 225 Measurement Uncertainty Concepts

Type: Extensible
Version: 20030327

Table CID 225. Measurement Uncertainty Concepts

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | R-00363 | +/-, range of measurement uncertainty | 371884006 | C1299354 |
| SRT | R-00364 | +, range of upper measurement uncertainty | 371886008 | C1299356 |
| SRT | R-00362 | -, range of lower measurement uncertainty | 371885007 | C1299355 |

CID 226 Population Statistical Descriptors

Type: Extensible
Version: 20121101

Table CID 226. Population Statistical Descriptors

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|
| SRT | R-00337 | 95th Percentile Value of population | 371889001 | C1299358 |
| SRT | R-00338 | 90th Percentile Value of population | 371887004 | C1276309 |
| SRT | R-00346 | 1 Sigma Upper Value of population | 371917008 | C1299386 |
| SRT | R-00387 | 2 Sigma Upper Value of population | 371920000 | C1299389 |
| SRT | R-00317 | Mean Value of population | 373098007 | C1298794 |
| SRT | R-00319 | Median Value of population | 373099004 | C1298795 |
| SRT | R-00377 | 10th Percentile Value of population | 371890005 | C1299359 |
| SRT | R-00397 | 5th Percentile Value of population | 371888009 | C1299357 |
| SRT | R-00347 | 1 Sigma Lower Value of population | 371919006 | C1299388 |
| SRT | R-00388 | 2 Sigma Lower Value of population | 371918003 | C1299387 |
| DCM | 121414 | Standard deviation of population | | |
| DCM | 121417 | 2 Sigma deviation of population | | |

Note

The SNOMED meaning for R-00317 is "Mean - numeric estimation technique", but in the context of its use here, a more specific meaning has been used.

CID 227 Sample Statistical Descriptors

Type: Extensible
Version: 20030327

Table CID 227. Sample Statistical Descriptors

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------------------|
| DCM | 121415 | Percentile Ranking of measurement |
| DCM | 121416 | Z-Score of measurement |

CID 228 Equation or Table

Type: Extensible
Version: 20030327

Table CID 228. Equation or Table

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | 121420 | Equation |
| DCM | 121421 | Equation Citation |
| DCM | 121424 | Table of Values |
| DCM | 121422 | Table of Values Citation |
| DCM | 121423 | Method Citation |

CID 230 Yes-No

Type: Non-Extensible
Version: 20060613

Table CID 230. Yes-No

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-0038D | Yes | 373066001 | C1298907 |
| SRT | R-00339 | No | 373067005 | C1298908 |
| SRT | R-0038A | Undetermined | 373068000 | C3536725 |

CID 231 Yes-No Only

Type: Non-Extensible
Version: 20151110

Table CID 231. Yes-No Only

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-0038D | Yes | 373066001 | C1298907 |
| SRT | R-00339 | No | 373067005 | C1298908 |

Note

This context group is intended for use rather than CID 230 "Yes-No" when the value (R-0038A, SRT, "Undetermined") is not permissible.

CID 240 Present-Absent

Type: Non-Extensible
Version: 20050110

Table CID 240. Present-Absent

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | G-A203 | Present | 52101004 | C0150312 |
| SRT | R-4089B | Absent | 272519000 | C0442733 |
| SRT | R-40271 | Presence Undetermined | 260245000 | C0442719 |

CID 241 Present-Absent Only

Type: Non-Extensible

Version: 20151110

Table CID 241. Present-Absent Only

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A203 | Present | 52101004 | C0150312 |
| SRT | R-4089B | Absent | 272519000 | C0442733 |

Note

This context group is intended for use rather than CID 240 "Normal-Abnormal" when the value (R-40271, SRT, "Presence Undetermined") is not permissible.

CID 242 Normal-Abnormal

This Context Group is a subset of CID 222 "Normality Codes".

Type: Extensible
Version: 20030327

Table CID 242. Normal-Abnormal

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | G-A460 | Normal | 17621005 | C0205307 |
| SRT | R-42037 | Abnormal | 263654008 | C0205161 |
| SRT | G-A385 | Normality Undetermined | 82334004 | C0205258 |

CID 244 Laterality

Type: Non-Extensible
Version: 20030108

Table CID 244. Laterality

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | G-A100 | Right | 24028007 | C0205090 |
| SRT | G-A101 | Left | 7771000 | C0205091 |
| SRT | G-A102 | Right and left | 51440002 | C0238767 |
| SRT | G-A103 | Unilateral | 66459002 | C0205092 |

CID 250 Positive-Negative

Type: Extensible
Version: 20040112

Table CID 250. Positive-Negative

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A200 | Positive | 10828004 | C1446409 |
| SRT | R-40759 | Negative | 260385009 | C0205160 |

CID 251 Severity of Complication

Type: Extensible
Version: 20040112

Table CID 251. Severity of Complication

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-404F9 | Major | 255603008 | C0205164 |
| SRT | R-404FC | Minor | 255606000 | C0205165 |

CID 252 S-M-L Size Descriptor

CID 6118 is a superset of this Context Group.

Type: Extensible
Version: 20080927

Table CID 252. S-M-L Size Descriptor

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-404A8 | Small | 255507004 | C0700321 |
| SRT | R-404A9 | Medium | 255508009 | C0439536 |
| SRT | R-404AA | Large | 255509001 | C0549177 |

CID 270 Observer Type

Type: Non-Extensible
Version: 20040920

Table CID 270. Observer Type

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 121006 | Person |
| DCM | 121007 | Device |

CID 271 Observation Subject Class

Type: Non-Extensible
Version: 20071102

Table CID 271. Observation Subject Class

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------|
| DCM | 121025 | Patient |
| DCM | 121026 | Fetus |
| DCM | 121027 | Specimen |
| DCM | 121192 | Device Subject |

CID 400 Audit Event ID

Type: Extensible
Version: ~~20100826~~20170416

Table CID 400. Audit Event ID

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------------|
| DCM | 110100 | Application Activity |
| DCM | 110101 | Audit Log Used |
| DCM | 110102 | Begin Transferring DICOM Instances |
| DCM | 110103 | DICOM Instances Accessed |
| DCM | 110104 | DICOM Instances Transferred |
| DCM | 110105 | DICOM Study Deleted |
| DCM | 110106 | Export |
| DCM | 110107 | Import |
| DCM | 110108 | Network Entry |
| DCM | 110109 | Order Record |
| DCM | 110110 | Patient Record |
| DCM | 110111 | Procedure Record |
| DCM | 110112 | Query |
| DCM | 110113 | Security Alert |
| DCM | 110114 | User Authentication |

CID 401 Audit Event Type Code

Type: Extensible
Version: ~~20100826~~20170416

Table CID 401. Audit Event Type Code

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------------|
| DCM | 110120 | Application Start |
| DCM | 110121 | Application Stop |
| DCM | 110122 | Login |
| DCM | 110123 | Logout |
| DCM | 110124 | Attach |
| DCM | 110125 | Detach |
| DCM | 110126 | Node Authentication |
| DCM | 110127 | Emergency Override Started |
| DCM | 110128 | Network Configuration |
| DCM | 110129 | Security Configuration |
| DCM | 110130 | Hardware Configuration |
| DCM | 110131 | Software Configuration |
| DCM | 110132 | Use of Restricted Function |
| DCM | 110133 | Audit Recording Stopped |
| DCM | 110134 | Audit Recording Started |
| DCM | 110135 | Object Security Attributes Changed |
| DCM | 110136 | Security Roles Changed |
| DCM | 110137 | User Security Attributes Changed |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------------|
| DCM | 110138 | Emergency Override Stopped |
| DCM | 110139 | Remote Service Operation Started |
| DCM | 110140 | Remote Service Operation Stopped |
| DCM | 110141 | Local Service Operation Started |
| DCM | 110142 | Local Service Operation Stopped |

CID 402 Audit Active Participant Role ID Code

Type: Extensible
Version: 20100826

Table CID 402. Audit Active Participant Role ID Code

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------|
| DCM | 110150 | Application |
| DCM | 110151 | Application Launcher |
| DCM | 110152 | Destination Role ID |
| DCM | 110153 | Source Role ID |
| DCM | 110154 | Destination Media |
| DCM | 110155 | Source Media |

CID 403 Security Alert Type Code

Type: Extensible
Version: ~~20100826~~20170416

Table CID 403. Security Alert Type Code

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------------|
| DCM | 110120 | Application Start |
| DCM | 110121 | Application Stop |
| DCM | 110122 | Login |
| DCM | 110123 | Logout |
| DCM | 110124 | Attach |
| DCM | 110125 | Detach |
| DCM | 110126 | Node Authentication |
| DCM | 110127 | Emergency Override Started |
| DCM | 110128 | Network Configuration |
| DCM | 110129 | Security Configuration |
| DCM | 110130 | Hardware Configuration |
| DCM | 110131 | Software Configuration |
| DCM | 110132 | Use of Restricted Function |
| DCM | 110133 | Audit Recording Stopped |
| DCM | 110134 | Audit Recording Started |
| DCM | 110135 | Object Security Attributes Changed |
| DCM | 110136 | Security Roles Changed |
| DCM | 110137 | User Security Attributes Changed |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------------|
| DCM | 110138 | Emergency Override Stopped |
| DCM | 110139 | Remote Service Operation Started |
| DCM | 110140 | Remote Service Operation Stopped |
| DCM | 110141 | Local Service Operation Started |
| DCM | 110142 | Local Service Operation Stopped |

CID 404 Audit Participant Object ID Type Code

Type: Extensible
Version: 20100621

Table CID 404. Audit Participant Object ID Type Code

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------|
| DCM | 110180 | Study Instance UID |
| DCM | 110181 | SOP Class UID |
| DCM | 110182 | Node ID |

CID 405 Media Type Code

Type: Extensible
Version: 20100824

Table CID 405. Media Type Code

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------|
| DCM | 110030 | USB Disk Emulation |
| DCM | 110031 | Email |
| DCM | 110032 | CD |
| DCM | 110033 | DVD |
| DCM | 110034 | Compact Flash |
| DCM | 110035 | Multi-media Card |
| DCM | 110036 | Secure Digital Card |
| DCM | 110037 | URI |
| DCM | 110010 | Film |
| DCM | 110038 | Paper Document |

CID 501 Volumetric View Description

Type: Extensible
Version: 20150915

Table CID 501. Volumetric View Description

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------|----------------------|------------------------|
| Include CID 6 "Transducer Orientation" | | | | |
| Include CID 26 "Nuclear Medicine Projections" | | | | |
| Include CID 4010 "DX View" | | | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| <i>Include CID 12226 "Echocardiography Image View"</i> | | | | |

CID 502 Volumetric View Modifier

Type: Extensible
Version: 20150915

Table CID 502. Volumetric View Modifier

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| <i>Include CID 6 "Transducer Orientation"</i> | | | | |
| <i>Include CID 23 "Cranio-Caudal Angulation"</i> | | | | |
| <i>Include CID 4011 "DX View Modifier"</i> | | | | |

CID 601 Biosafety Levels

Type: Extensible
Version: 20151110

Table CID 601. Biosafety Levels

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | R-41E4D | Biosafety level 1 | 409600007 | C1443934 |
| SRT | R-41E4E | Biosafety level 2 | 409603009 | C1443937 |
| SRT | R-41E4F | Biosafety level 3 | 409604003 | C1443938 |
| SRT | R-41E50 | Biosafety level 4 | 409605002 | C1443939 |

CID 602 Biosafety Control Reasons

Type: Extensible
Version: 20151110

Table CID 602. Biosafety Control Reasons

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | F-61E79 | Biohazardous material | 409595003 | C0079021 |
| SRT | C-29000 | Carcinogen | 88376000 | C0007090 |
| SRT | F-00D5F | Patient immunocompromised | 370388006 | C0085393 |
| UMLS | C0003069 | Transgenic animal | | C0003069 |

CID 603 Animal Room Types

Type: Extensible
Version: 20151110

Table CID 603. Animal Room Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| DCM | 127370 | Animal housing room | | |
| DCM | 127371 | Preparation room | | |
| DCM | 127372 | Imaging procedure room | | |
| SRT | R-305D6 | Induction room | 414485004 | C1532289 |
| SRT | R-305C3 | Recovery room | 398161000 | C0198828 |
| SRT | R-305D3 | Isolation room | 409688003 | C1443994 |

Note

- Only rooms appropriate for animals in the context of in vivo imaging are described (e.g., not necropsy rooms, etc.)
- (R-305C3, SRT, "Recovery room" (synonym of "postoperative anesthesia care unit ") is reused here even though its parent is "Location within hospital premises (environment)", which is arguably specifically human. The same is true for (R-305D6, SRT, "Induction room") and (R-305D3, SRT, "Isolation room").

CID 604 Device Reuse

Type: Extensible
Version: 20151110

Table CID 604. Device Reuse

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| DCM | 127177 | Unused | | |
| DCM | 127178 | Reused | | |

CID 605 Animal Bedding Material

Type: Extensible
Version: 20151110

Table CID 605. Animal Bedding Material

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| DCM | 127230 | Aspen chip bedding | | |
| DCM | 127231 | Aspen shaving bedding | | |
| DCM | 127232 | Corn cob bedding | | |
| DCM | 127233 | Paper-based bedding | | |
| DCM | 127234 | Pine chip bedding | | |
| DCM | 127235 | Pine shaving bedding | | |

CID 606 Animal Shelter Types

Type: Extensible
Version: 20151110

Table CID 606. Animal Shelter Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | R-40775 | None | 260413007 | C0549184 |
| DCM | 127220 | Igloo | | |
| DCM | 127221 | Red translucent igloo | | |

CID 607 Animal Feed Types

Type: Extensible
Version: 20151110

Table CID 607. Animal Feed Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| DCM | 127271 | NIH07 | | |
| DCM | 127270 | NIH31 | | |
| DCM | 127272 | AIN76 | | |
| DCM | 127273 | AIN93G | | |
| DCM | 127274 | AIN93M | | |

Note

This context group includes the open source diets described in Barnard DE et al. Open- and Closed-Formula Laboratory Animal Diets and Their Importance to Research. Journal of the American Association for Laboratory Animal Science : JAALAS (2009), 48(6), 709–713. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2786923/>.

A more extensive list of NIH-specified diets for small animals (not just mice and rats) can be found at https://web.archive.org/web/20100527090853/http://dvrnet.ors.od.nih.gov/diets_info.asp.

CID 608 Animal Feed Sources

Type: Extensible
Version: 20151110

Table CID 608. Animal Feed Sources

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| UMLS | C1547887 | Commercial product | | C1547887 |
| DCM | 127390 | Locally manufactured product | | |

Note

(C1547887, UMLS, "Commercial product") originates from the HL7 V2.5 Chapter 04 blood products description as an attribute name rather than a value, but in UMLS is not expressly constrained and has as a parent generic semantic type of "Manufactured Object".

CID 609 Animal Feeding Methods

Type: Extensible
Version: 20151110

Table CID 609. Animal Feeding Methods

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| NCl | C64636 | ad libitum | | C1879743 |
| UMLS | C0425422 | Restricted diet | | C0425422 |
| UMLS | C0425422 | Restricted diet | | C0425422 |
| DCM | 127391 | Food treat | | |
| | | Food treat | | |
| SRT | PA-00620 | Gavage | 61420007 | C0041281 |

Note

(C0425422, UMLS, "Restricted diet") corresponds to the inactive SNOMED concept of "Dietary restriction NOS"; SNOMED currently does not seem to have an active generic concept of a restricted diet, as opposed to many specific types of restricted diet. In this context, the intent is to convey that the diet is controlled and restricted to finite quantities (e.g., as opposed to ad libitum) without requiring a detailed classification of what components are restricted.

CID 610 Water Types

Type: Extensible
Version: 20151110

Table CID 610. Water Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | C-101E9 | Tap water | 444923006 | C2919405 |
| SRT | C-101E8 | Distilled water | 444883009 | C0790233 |
| DCM | 127290 | Reverse osmosis purified water | | |
| DCM | 127291 | Reverse osmosis purified, HCl acidified water | | |

CID 611 Anesthesia Category Code Type for Small Animal Anesthesia

Type: Extensible
Version: 20151110

Table CID 611. Anesthesia Category Code Type for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| Include CID 612 "Anesthesia Category Code Type from Anesthesia Quality Initiative (AQI)" | | | | |

CID 612 Anesthesia Category Code Type from Anesthesia Quality Initiative (AQI)

Type: Extensible
Version: 20151110

Table CID 612. Anesthesia Category Code Type from Anesthesia Quality Initiative (AQI)

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------|----------------------|------------------------|
| SRT | P1-C0010 | General anesthesia | 50697003 | C0002915 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | P1-C0B00 | Sedation | 72641008 | C0344106 |
| SRT | P1-C0208 | Spinal anesthesia | 231249005 | C0002928 |
| SRT | P1-C0220 | Epidural anesthesia | 18946005 | C0002913 |
| SRT | P1-C0200 | Regional anesthesia | 27372005 | C0002911 |
| SRT | P1-C0037 | Topical local anesthesia | 386760001 | C0472473 |
| SRT | P1-C0038 | Local anesthesia | 386761002 | C0002921 |
| SRT | P1-0512E | Monitored Anesthesia Care (MAC) | 398239001 | C1301902 |

Note

This context group contains SNOMED procedure code equivalents of enumerated string concepts for the [AQI Schema] element AnesthesiaCategoryCodeType. See <http://www.aqihq.org/aqischdoc/AnesthesiaCategoryCodeType.html>.

CID 613 Anesthesia Induction Code Type for Small Animal Anesthesia

Type: Extensible
Version: 20151110

Table CID 613. Anesthesia Induction Code Type for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|-----------------------|----------------------|------------------------|
| <i>Include CID 614 "Anesthesia Induction Code Type from Anesthesia Quality Initiative (AQI)"</i> | | | | |
| SRT | G-D106 | Intraperitoneal route | 38239002 | C1522583 |

Note

The intraperitoneal route is added to the AQI value set, since that route is used for small animal imaging.

CID 614 Anesthesia Induction Code Type from Anesthesia Quality Initiative (AQI)

Type: Extensible
Version: 20151110

Table CID 614. Anesthesia Induction Code Type from Anesthesia Quality Initiative (AQI)

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------|----------------------|------------------------|
| SRT | R-40B32 | By inhalation | 446406008 | C1998547 |
| SRT | G-D101 | Intravenous route | 47625008 | C1522726 |
| SRT | G-D160 | Per rectum | 37161004 | C1527425 |
| SRT | G-D103 | Intramuscular route | 78421000 | C1556154 |

Note

This context group contains SNOMED administration route code equivalents of enumerated string concepts for the [AQI Schema] element AnesthesiaInductionCodeType. See <http://www.aqihq.org/aqischdoc/AnesthesiaInductionCodeType.html>.

CID 615 Anesthesia Maintenance Code Type for Small Animal Anesthesia

Type: Extensible
Version: 20151110

Table CID 615. Anesthesia Maintenance Code Type for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| <i>Include CID 616 "Anesthesia Maintenance Code Type from Anesthesia Quality Initiative (AQI)"</i> | | | | |

CID 616 Anesthesia Maintenance Code Type from Anesthesia Quality Initiative (AQI)

Type: Extensible
Version: 20151110

Table CID 616. Anesthesia Maintenance Code Type from Anesthesia Quality Initiative (AQI)

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | P1-C0020 | Inhalation anesthesia system closed rebreathing primary agent | 112987001 | C0198795 |
| SRT | P1-C0030 | Inhalation anesthesia system closed no rebreathing primary agent | 44812007 | C0198796 |

Note

This context group contains SNOMED procedure code equivalents of enumerated string concepts for the [AQI Schema] element AnesthesiaMaintenanceCodeType. See <http://www.aqihq.org/aqischdoc/AnesthesiaMaintenanceCodeType.html>.

The AQI value "circle system" corresponds to (P1-C0020, SRT, "Inhalation anesthesia system closed rebreathing primary agent"). The SNOMED code meaning has been abbreviated to fit within the allowed DICOM Value Representation.

The AQI value "non-rebreathing" corresponds to (P1-C0030, SRT, "Inhalation anesthesia system closed no rebreathing primary agent"). The SNOMED code meaning has been abbreviated to fit within the allowed DICOM Value Representation.

CID 617 Airway Management Method Code Type for Small Animal Anesthesia

Type: Extensible
Version: 20151110

Table CID 617. Airway Management Method Code Type for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| <i>Include CID 618 "Airway Management Method Code Type from Anesthesia Quality Initiative (AQI)"</i> | | | | |
| DCM | 127060 | Nose cone | | |

CID 618 Airway Management Method Code Type from Anesthesia Quality Initiative (AQI)

Type: Extensible
Version: 20151110

Table CID 618. Airway Management Method Code Type from Anesthesia Quality Initiative (AQI)

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | P2-2290D | Controlled Ventilation | 243147009 | C0419011 |
| SRT | P2-22902 | Artificial Respiration | 40617009 | C0035205 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | P2-22500 | Oxygen Therapy | 57485005 | C0184633 |
| SRT | P0-05DE2 | Laryngeal Mask Airway (LMA) | 424979004 | C0396618 |
| SRT | P0-06211 | Intubation of respiratory tract | 447996002 | C3164350 |
| SRT | A-00BA2 | Anesthetic face mask | 297120004 | C0573976 |
| SRT | A-00BA2 | Anesthetic face mask | 297120004 | C0573976 |
| DCM | 127061 | Nasal cannula | | C0179574 |
| SRT | G-D13E | Via tracheostomy | 180640008 | C0393370 |

Note

This context group contains SNOMED procedure or physical object or qualifier value code equivalents of enumerated string concepts for the [AQI Schema] element AirwayManagementMethodCodeType. See <http://www.aqihq.org/aqischdoc/AirwayManagementMethodCodeType.html>. Used by permission of the Anesthesia Quality Institute (AQI) (<http://aqihq.org/>).

CID 619 Airway Management Sub-Method Code Type for Small Animal Anesthesia

Type: Extensible
Version: 20151110

Table CID 619. Airway Management Sub-Method Code Type for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------|----------------------|------------------------|
| Include CID 620 "Airway Management Sub-Method Code Type from Anesthesia Quality Initiative (AQI)" | | | | |

CID 620 Airway Management Sub-Method Code Type from Anesthesia Quality Initiative (AQI)

Type: Extensible
Version: 20151110

Table CID 620. Airway Management Sub-Method Code Type from Anesthesia Quality Initiative (AQI)

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| UMLS | C2223982 | Inverse ratio ventilation | | C2223982 |
| SRT | P2-22914 | High frequency ventilation | 243154003 | C0019540 |
| SRT | P2-22933 | Transtracheal jet ventilation | 448442005 | C3164603 |
| SRT | P2-22916 | Continuous flow ventilation | 243156001 | C0419018 |

Note

This context group contains SNOMED procedure code equivalents of enumerated string concepts for the [AQI Schema] element AirwayManagementSubMethodCodeType. See <http://www.aqihq.org/aqischdoc/AirwayManagementSubMethodCodeType.html>.

CID 621 Medication Type Code Type for Small Animal Anesthesia

Type: Extensible
Version: 20151110

Table CID 621. Medication Type Code Type for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------|----------------------|------------------------|
| <i>Include CID 622 "Medication Type Code Type from Anesthesia Quality Initiative (AQI)"</i> | | | | |
| DCM | 127330 | Carrier gas | | |

CID 622 Medication Type Code Type from Anesthesia Quality Initiative (AQI)

Type: Extensible
Version: 20160212

Table CID 622. Medication Type Code Type from Anesthesia Quality Initiative (AQI)

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | C-68000 | Adrenergic agent | 86308005 | C0001637 |
| SRT | C-52500 | Aminoglycoside antibiotic | 14443002 | C0002556 |
| SRT | F-6181F | Analgesic | 373265006 | C0002771 |
| SRT | F-6196E | Antiarrhythmic | 372813008 | C0003195 |
| SRT | C-5008C | Antibiotic | 255631004 | C0003232 |
| SRT | F-6180B | Anticholinergic | 373246003 | C0242896 |
| SRT | F-6180B | Anticholinergic agent | 373246003 | C0242896 |
| SRT | F-6199A | Anticoagulant | 372862008 | C0003280 |
| SRT | R-F1216 | Anticonvulsant | 255632006 | C0003286 |
| SRT | R-F1216 | Anticonvulsant | 255632006 | C0003286 |
| SRT | F-B1810 | Antidiuretic hormone | 77671006 | C1705480 |
| SRT | C-85800 | Antiemetic | 52017007 | C0003297 |
| SRT | F-617EF | Antifungal | 373219008 | C0003308 |
| SRT | F-618BA | Anti-heparin agent | 372708000 | C0304941 |
| SRT | F-61969 | Antihistamine | 372806008 | C0003360 |
| SRT | C-81100 | Antihypertensive | 1182007 | C0003364 |
| UMLS | C1579431 | Antihypoglycemic | | C1579431 |
| SRT | R-F2B23 | Barbiturate | 372798009 | C0004745 |
| SRT | R-F2B1D | Benzodiazepine | 372664007 | C0005064 |
| SRT | F-619EF | Benzodiazepine antagonist | 372906009 | C0360298 |
| SRT | F-61814 | Beta-blocker | 373254001 | C0001645 |
| SRT | C-00231 | Beta-Lactam antibiotic | 373297006 | C0026458 |
| SRT | R-005B3 | Blood product | 410652009 | C0456388 |
| SRT | F-616EB | Bronchodilator | 372580007 | C0006280 |
| SRT | C-14300 | Calcium | 5540006 | C0006675 |
| SRT | F-61878 | Calcium channel blocker | 373304005 | C0006684 |
| SRT | F-618D8 | Caloric agent | 373530005 | C0280082 |
| SRT | C-002B1 | Carbapenem antibiotic | 396345004 | C0006968 |
| SRT | C-0021C | Cephalosporin antibiotic | 373262009 | C3536856 |
| SRT | F-620E8 | Cholinergic agent | 421148003 | C1720711 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | F-618AF | Diuretic | 372695000 | C0012798 |
| SRT | C-50013 | Drug diluent | 74626007 | C0304221 |
| SRT | F-B2700 | Estrogen | 41598000 | C0014939 |
| SRT | C-84989 | Gastrointestinal prokinetic | 116532005 | C1268865 |
| SRT | F-6186A | General anesthetic | 373288007 | C0017302 |
| UMLS | C0019593 | H2 antagonist | | C0019593 |
| SRT | F-618A5 | Hemostatic agent | 372681003 | C0019120 |
| SRT | C-50309 | Hypoglycemic | 312064005 | C0020616 |
| SRT | C-80120 | Inotropic agent | 111139005 | C0304509 |
| SRT | C-0023B | Lincomycin antibiotic | 372677003 | C0023726 |
| SRT | C-00286 | Linezolid antibiotic | 387056004 | C0663241 |
| SRT | F-6183D | Local anesthetic | 373477003 | C0002934 |
| SRT | F-6186F | Low Molecular Weight Heparin | 373294004 | C0019139 |
| SRT | C-00211 | Macrolide antibiotic | 372480009 | C0003240 |
| SRT | C-14800 | Magnesium | 72717003 | C0024467 |
| SRT | F-616FE | Metronidazole antibiotic | 372602008 | C0025872 |
| SRT | F-6188F | Narcotic (opiate) antagonist | 372656001 | C0027410 |
| UMLS | C0027409 | Narcotic analgesic | | C0027409 |
| SRT | C-97302 | Nasal decongestant | 96329004 | C0042398 |
| SRT | F-6180F | NeuroMuscular Blocking (NMB) - depolarizing | 373250005 | C0027867 |
| SRT | F-61959 | NeuroMuscular Blocking (NMB) - non depolarizing | 372790002 | C0304435 |
| SRT | F-61898 | NSAID | 372665008 | C0003211 |
| SRT | F-61D70 | Ocular Lubricant | 398828005 | C0717951 |
| SRT | F-61E2A | Oxytocic | 410937004 | C0030094 |
| SRT | C-0021D | Penicillin antibiotic | 373270004 | C0030842 |
| SRT | F-616E7 | Plasma Expander | 372578001 | C1268852 |
| SRT | C-13500 | Potassium | 88480006 | C0032821 |
| SRT | C-0024C | Quinolone antibiotic | 372722000 | C1533693 |
| SRT | F-6205D | Respiratory stimulant | 418760000 | C0282685 |
| SRT | F-61899 | Skeletal muscle relaxant | 372666009 | C0037250 |
| SRT | C-10098 | Steroid | 116566001 | C0038317 |
| SRT | C-00257 | Sulfonamide antibiotic | 372788003 | C0599503 |
| SRT | C-00216 | Tetracycline antibiotic | 373206009 | C1744619 |
| SRT | F-B3000 | Thyroid hormone | 18220004 | C0040135 |
| SRT | C-0024E | Vancomycin antibiotic | 372735009 | C0042313 |
| SRT | F-619AA | Vasoconstrictor | 372881000 | C0042397 |
| SRT | F-61957 | Vasodilator | 372787008 | C0042402 |
| SRT | F-BB000 | Vitamin | 87708000 | C0042890 |

Note

This context group contains SNOMED substance or product code equivalents of enumerated string concepts for the [AQI Schema] element MedicationTypeCodeType. See <http://www.aqihq.org/aqischdoc/MedicationTypeCodeType.html> and <http://www.aqihq.org/aqischdoc/MedicationTypeCodeTypeExampleList.html>.

The AQI value "ABX-Miscellaneous" corresponds to (C-5008C, SRT, "Antibiotic") product, since there is no substance code in SNOMED.

The AQI value "Vasopressor" corresponds to (F-619AA, SRT, "Vasoconstrictor").

No equivalent concepts are included for MedicationTypeCodeType values of NonFormulary antibiotic, Dye, Indigo Carmine Red, and Non-Formulary.

CID 623 Medication for Small Animal Anesthesia

Type: Extensible
Version: 20151110

Table CID 623. Medication for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------|----------------------|------------------------|
| <i>Include CID 624 "Inhalational Anesthesia Agents for Small Animal Anesthesia"</i> | | | | |
| <i>Include CID 625 "Injectable Anesthesia Agents for Small Animal Anesthesia"</i> | | | | |
| <i>Include CID 626 "Premedication Agents for Small Animal Anesthesia"</i> | | | | |
| <i>Include CID 627 "Neuromuscular Blocking Agents for Small Animal Anesthesia"</i> | | | | |
| <i>Include CID 628 "Ancillary Medications for Small Animal Anesthesia"</i> | | | | |
| <i>Include CID 629 "Carrier Gases for Small Animal Anesthesia"</i> | | | | |
| <i>Include CID 630 "Local Anesthetics for Small Animal Anesthesia"</i> | | | | |

CID 624 Inhalational Anesthesia Agents for Small Animal Anesthesia

Type: Extensible
Version: 20151110

Table CID 624. Inhalational Anesthesia Agents for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | C-10520 | Carbon dioxide | 31811003 | C0007012 |
| SRT | C-20830 | Chloroform | 259153006 | C0008238 |
| SRT | F-61AC9 | Desflurane | 386841003 | C0063252 |
| SRT | C-21216 | Diethyl ether | 259170003 | C0014994 |
| SRT | F-61A3F | Enflurane | 387176008 | C0014277 |
| SRT | F-61AFE | Halothane | 387351001 | C0018549 |
| SRT | F-61B0A | Isoflurane | 387368002 | C0022180 |
| SRT | C-6A16A | Methoxyflurane | 11136004 | C0025688 |
| SRT | C-6A118 | Nitrous oxide | 111132001 | C0028215 |
| SRT | F-61ACA | Sevoflurane | 386842005 | C0074414 |

Note

In this context group, SNOMED substance codes are used in preference to product codes, since there is no need to refer to specific products or preparations. SNOMED codes are used in preference to other potential sources of pharmaceutical related codes, such as from the National Drug Code (NDC) directory.

CID 625 Injectable Anesthesia Agents for Small Animal Anesthesia

Type: Extensible
Version: 20160212

Table CID 625. Injectable Anesthesia Agents for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | C-23805 | Alphachloralose | 277016007 | C0008162 |
| SRT | C-6A161 | Alphadolone | 125707004 | C0051481 |
| UMLS | C0051482 | Alphaxalone | | C0051482 |
| SRT | C-640A0 | Azaperone | 96229001 | C0004477 |
| SRT | R-F2B27 | Butabarbital | 372901004 | C0006464 |
| SRT | R-F6E36 | Chloral hydrate | 273948005 | C0008161 |
| SRT | R-F2B2C | Diazepam | 387264003 | C0012010 |
| SRT | F-61A26 | Droperidol | 387146001 | C0013136 |
| SRT | F-61A66 | Etomidate | 387218008 | C0015131 |
| UMLS | C0060473 | Fluanisone | | C0060473 |
| SRT | F-6182F | Ketamine | 373464007 | C0022614 |
| SRT | F-61848 | Methohexital | 373488009 | C0025668 |
| UMLS | C0025856 | Metomidate | | C0025856 |
| SRT | F-6183C | Midazolam | 373476007 | C0026056 |
| SRT | R-F2B1F | Pentobarbital | 372703009 | C0030883 |
| SRT | F-61B48 | Propofol | 387423006 | C0033487 |
| SRT | C-6A16B | Thiamylal | 40342009 | C0039855 |
| SRT | F-61BB2 | Thiopental | 387448009 | C0936073 |
| SRT | C-6A190 | Tiletamine | 96265006 | C0242522 |
| SRT | C-6A16E | Tribromoethanol | 84386009 | C0084847 |
| SRT | C-29020 | Urethane (ethyl carbamate) | 873008 | C0041964 |
| SRT | C-640B0 | Xylazine | 96230006 | C0242544 |
| SRT | C-64090 | Zolazepam | 96227004 | C0917859 |

Note

In this context group, SNOMED substance codes are used in preference to product codes, since there is no need to refer to specific products or preparations. SNOMED codes are used in preference to other potential sources of pharmaceutical related codes, such as from the National Drug Code (NDC) directory.

CID 626 Premedication Agents for Small Animal Anesthesia

Type: Extensible
Version: 20151110

Table CID 626. Premedication Agents for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | C-62960 | Acepromazine | 96218000 | C0000959 |
| SRT | F-61A7F | Chlorpromazine | 387258005 | C0008286 |

CID 627 Neuromuscular Blocking Agents for Small Animal Anesthesia

Type: Extensible

Version: 20151110

Table CID 627. Neuromuscular Blocking Agents for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | F-61916 | Succinylcholine | 372724004 | C0038627 |
| SRT | F-61639 | Pancuronium | 373738000 | C0030310 |

Note

In this context group, SNOMED substance codes are used in preference to product codes, since there is no need to refer to specific products or preparations. SNOMED codes are used in preference to other potential sources of pharmaceutical related codes, such as from the National Drug Code (NDC) directory.

CID 628 Ancillary Medications for Small Animal Anesthesia

Type: Extensible

Version: 20151110

Table CID 628. Ancillary Medications for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
|--------------------------|------------|--------------|----------------------|------------------------|

Note

This context group is currently empty since no ancillary medications have been identified for this use case yet.

CID 629 Carrier Gases for Small Animal Anesthesia

Type: Extensible

Version: 20151110

Table CID 629. Carrier Gases for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | C-6A102 | Oxygen gas | 320917000 | C0350411 |
| SRT | C-6A148 | Medical air | 417696007 | C3536832 |
| UMLS | C3846005 | Room air | | C3846005 |

Note

In this context group, though SNOMED substance codes are normally used in preference to product codes, in the case of (C-6A102, SRT, "Oxygen gas") there is no corresponding substance that is specifically the gaseous form of oxygen.

CID 630 Local Anesthetics for Small Animal Anesthesia

Type: Extensible
Version: 20151110

Table CID 630. Local Anesthetics for Small Animal Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | F-61A28 | Bupivacaine | 387150008 | C0006400 |
| SRT | C-80477 | Lidocaine + Prilocaine | 346553009 | C0617623 |
| SRT | F-61BD0 | Lidocaine | 387480006 | C0023660 |

Note

- In this context group, SNOMED substance codes are used in preference to product codes, since there is no need to refer to specific products or preparations. SNOMED codes are used in preference to other potential sources of pharmaceutical related codes, such as from the National Drug Code (NDC) directory.
- For Lidocaine + Prilocaine, since it is a mixture of two substances, the code for the product concept is used. The code for a mixture of unspecified type is used, rather than a more specific code, e.g., for the so-called "Eutectic Mixture of Local Anesthetics (EMLA)", which consists of Lidocaine + Prilocaine. UMLS contains three distinct concepts, (C0059079, UMLS, "EMLA"), (C0617623, UMLS, "Lidocaine/Prilocaine") and (C0950567, UMLS, "Eutectic Lidocaine-Prilocaine").

CID 631 Phase of Procedure Requiring Anesthesia

Type: Extensible
Version: 20151110

Table CID 631. Phase of Procedure Requiring Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------|----------------------|------------------------|
| <i>Include CID 632 "Phase of Surgical Procedure Requiring Anesthesia"</i> | | | | |
| <i>Include CID 633 "Phase of Imaging Procedure Requiring Anesthesia"</i> | | | | |

CID 632 Phase of Surgical Procedure Requiring Anesthesia

Type: Extensible
Version: 20151110

Table CID 632. Phase of Surgical Procedure Requiring Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | R-413C5 | Preoperative | 262068006 | C0445204 |
| SRT | R-400B2 | Intraoperative | 277671009 | C0456904 |
| SRT | R-413B7 | Postoperative | 262061000 | C0032790 |

CID 633 Phase of Imaging Procedure Requiring Anesthesia

Type: Extensible
Version: 20151110

Table CID 633. Phase of Imaging Procedure Requiring Anesthesia

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------|----------------------|------------------------|
| SRT | R-40FB9 | Before procedure | 307153007 | C0585032 |
| SRT | R-40FBA | During procedure | 307154001 | C0585033 |
| SRT | R-422A4 | After procedure | 303110006 | C0580203 |

Note

The concepts used in this context group are more general than those for a specific procedure, e.g., surgery, radiotherapy, chemotherapy. In SNOMED, the concepts used in this context group are the parent concepts of the surgically-specific concepts used in CID 631 "Phase of Procedure Requiring Anesthesia". There are no concepts defined specifically for periods related to an imaging procedure so the general concepts suffice (in context).

CID 634 Phase of Animal Handling

Type: Extensible
Version: 20151110

Table CID 634. Phase of Animal Handling

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| DCM | 127101 | In home cage | | |
| DCM | 127102 | During transport | | |
| DCM | 127103 | Staging prior to imaging | | |
| DCM | 127104 | Preparation for imaging | | |
| SRT | P1-C0012 | Anesthesia induction | 241687005 | C0473960 |
| SRT | P0-0099A | Imaging procedure | 363679005 | C0011923 |
| UMLS | C0002908 | Anesthesia recovery period | | C0002908 |

CID 635 Heating Method

Type: Extensible
Version: 20151110

Table CID 635. Heating Method

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | R-FDB79 | Air heating pad | 468192005 | C3877351 |
| SRT | A-18041 | Electric blanket | 79811009 | C0336614 |
| SRT | A-2C140 | Electric heating pad | 27812008 | C0181157 |
| DCM | 127250 | Forced air heater | | |
| SRT | A-17454 | Forced air warming blanket | 420572009 | C1719899 |
| DCM | 127251 | Heated imaging device | | |
| DCM | 127252 | Heated patient support | | |
| DCM | 127253 | Heated water blanket | | |
| UMLS | C0181514 | Heat lamp | | C0181514 |
| SRT | A-2C141 | Non-electric heating pad | 39790008 | C0521200 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| DCM | 127254 | Pre-heated pad | | |
| DCM | 127255 | Unheated | | |
| SRT | A-17450 | Warmer device | 71384000 | C0184348 |
| SRT | A-17452 | Warming blanket | 421335007 | C0184351 |

CID 636 Temperature Sensor Device Component Type for Small Animal Procedures

Type: Extensible
Version: 20151110

Table CID 636. Temperature Sensor Device Component Type for Small Animal Procedures

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | F-00BB8 | Rectal temperature | 307047009 | C0489749 |
| UMLS | C0039810 | Thermography | | C0039810 |
| DCM | 127240 | Carrier temperature sensor | | |

Note

(C0039810, UMLS, "Thermography") is a general concept that also encompasses diagnostic uses of thermography, in addition to simple temperature measurement; only the latter meaning is used here, as is implicit from the context of invocation.

CID 637 Exogenous Substance Types

Type: Extensible
Version: 20151110

Table CID 637. Exogenous Substance Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | G-C1F9 | Graft material | 246345001 | C0181074 |
| DCM | 127460 | Tumor Graft | | |
| SRT | T-1A080 | Fibril | 88921000 | C0225328 |
| SRT | L-30000 | Virus | 49872002 | C0042776 |
| SRT | F-CB250 | Cytokine | 75777003 | C0079189 |
| SRT | C-00224 | Toxin | 80917008 | C0040549 |

Note

The specific concept (C22490, NCIt, "Tumor Cell Graft") (UMLS:C1519674) is not used, since grafts may not be cell suspensions, but rather entire tumors, fragments of tumor tissue, etc. Whether the graft is a xenograft or homograft is not specified, and may be encoded elsewhere (e.g., by encoding the species of origin). The non-tumor specific concept (G-C1F9, SRT, "Graft material") may be used when the graft is not a tumor (though strictly speaking, it is a SNOMED attribute rather than substance; UMLS:C0181074 does not make such a distinction).

CID 638 Exogenous Substance

Type: Extensible
Version: 20151110

Table CID 638. Exogenous Substance

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| <i>Include CID 639 "Tumor Graft Histologic Type"</i> | | | | |
| <i>Include CID 640 "Fibrils"</i> | | | | |
| <i>Include CID 641 "Viruses"</i> | | | | |
| <i>Include CID 642 "Cytokines"</i> | | | | |
| <i>Include CID 643 "Toxins"</i> | | | | |

CID 639 Tumor Graft Histologic Type

Type: Extensible
Version: 20151110

Table CID 639. Tumor Graft Histologic Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | M-81403 | Adenocarcinoma | 35917007 | C0001418 |
| SRT | M-87303 | Amelanotic melanoma | 70594002 | C0206735 |
| SRT | M-94003 | Astrocytoma | 38713004 | C0004114 |
| NCl | C2923 | Bronchioloalveolar adenocarcinoma | | C0007120 |
| SRT | M-80103 | Carcinoma | 68453008 | C0007097 |
| SRT | M-89803 | Carcinosarcoma | 63264007 | C0007140 |
| SRT | M-84403 | Cystadenocarcinoma | 21008007 | C0010631 |
| SRT | M-94403 | Glioblastoma | 63634009 | C0017636 |
| SRT | D0-F0369 | Infiltrating ductal carcinoma of breast | 408643008 | C1134719 |
| SRT | M-80123 | Large cell carcinoma | 22687000 | C0206704 |
| SRT | DC-F4113 | Leukemia | 93143009 | C0023418 |
| SRT | M-87203 | Melanoma | 2092003 | C0025202 |
| SRT | M-90503 | Mesothelioma | 62064005 | C0025500 |
| SRT | M-80453 | Mixed small cell carcinoma | 21326004 | C0334240 |
| SRT | M-80463 | Non-small cell carcinoma | 128632008 | C1266002 |
| SRT | M-91803 | Osteosarcoma | 21708004 | C0029463 |
| SRT | R-FB83F | Renal cell carcinoma | 702391001 | C0007134 |
| SRT | M-88003 | Sarcoma | 2424003 | C1261473 |
| SRT | M-80413 | Small cell carcinoma | 74364000 | C0262584 |
| SRT | M-80323 | Spindle cell carcinoma | 65692009 | C0205697 |
| SRT | M-80703 | Squamous cell carcinoma | 28899001 | C0007137 |

CID 640 Fibrils

Type: Extensible
Version: 20151110

Table CID 640. Fibrils

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| DCM | 127851 | Human alpha synuclein preformed fibrils | | |
| DCM | 127852 | Mouse alpha synuclein preformed fibrils | | |
| DCM | 127853 | Human Tau preformed fibrils | | |
| DCM | 127854 | Mouse Tau preformed fibrils | | |

CID 641 Viruses

Type: Extensible
Version: 20151110

Table CID 641. Viruses

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-30606 | Theiler's murine encephalomyelitis virus | 42024000 | C0206425 |
| SRT | L-35500 | Adeno-associated virus group | 112381006 | C0001417 |

CID 642 Cytokines

Type: Extensible
Version: 20151110

Table CID 642. Cytokines

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | F-CB962 | Tumor necrosis factor alpha | 39525005 | C1456820 |
| SRT | F-C0101 | Interferon gamma | 420303002 | C0021745 |
| SRT | F-CB902 | Vascular endothelial growth factor | 417324009 | C0078058 |

CID 643 Toxins

Type: Extensible
Version: 20151110

Table CID 643. Toxins

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | F-63750 | Lysophosphatidylcholine | 54446009 | C0024360 |
| UMLS | C0019873 | Ethidium Bromide | | C0019873 |
| PUBCHEM_CID | 4624 | 6-hydroxydopamine | | |
| SRT | F-63390 | Lipopolysaccharide | 3325005 | C0023810 |

CID 644 Exogenous Substance Administration Sites

Type: Extensible
Version: 20170124

Table CID 644. Exogenous Substance Administration Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | T-D2310 | Flank | 58602004 | C0230171 |
| SRT | T-A0100 | Brain | 12738006 | C0006104 |
| SRT | M-8FFFF | Tumor | 108369006 | C0027651 |
| SRT | T-62000 | Liver | 10200004 | C0023884 |
| SRT | T-C1000 | Bone Marrow | 14016003 | C0005953 |
| NCIt | C22550 | Mouse mammary fat pad | | C1512979 |

Note

Since this context group defines the sites, rather than routes of administration, if the exogenous substance is administered into a tumor, the code for the morphologic abnormality (M-8FFFF, SRT, "Tumor") is used, rather than the specific concept for the route (R-F2CD4, SRT, "Intratumor route") (which may also be present as the value for the separately encoded route of administration, if present).

CID 645 Exogenous Substance Tissue of Origin

Type: Extensible
Version: 20151110

Table CID 645. Exogenous Substance Tissue of Origin

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | T-D04AC | Ascitic fluid | 409615008 | C0003964 |
| SRT | T-D016E | Bone | 272673000 | C0262950 |
| SRT | T-A0100 | Brain | 12738006 | C0006104 |
| SRT | T-04000 | Breast | 76752008 | C0006141 |
| SRT | T-A0090 | Central nervous system | 21483005 | C0927232 |
| SRT | T-59300 | Colon | 71854001 | C0009368 |
| DCM | 127801 | Embryonic kidney | | |
| SRT | T-71000 | Kidney | 64033007 | C0022646 |
| SRT | T-28000 | Lung | 39607008 | C0024109 |
| SRT | T-C6020 | Lymph | 38000004 | C0024202 |
| SRT | T-D03C2 | Lymphatic tissue | 181768009 | C0024296 |
| SRT | T-C4000 | Lymph Node | 59441001 | C0024204 |
| SRT | DF-00436 | Metastasis | 128462008 | C2939419 |
| SRT | T-87000 | Ovary | 15497006 | C0029939 |
| SRT | D2-80100 | Pleural effusion | 60046008 | C0032227 |
| SRT | T-9200B | Prostate | 181422007 | C1278980 |
| SRT | D2-F1106 | Pulmonary metastasis | 94391008 | C0153676 |

CID 646 Preclinical Small Animal Imaging Procedures

Type: Extensible
Version: 20151110

Table CID 646. Preclinical Small Animal Imaging Procedures

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| LN | 46305-9 | Whole body CT | | C1830206 |
| LN | 24725-4 | Head CT | 303653007 | C0202691 |
| LN | 46358-8 | MRI whole body | 426252008 | C1830259 |
| LN | 24590-2 | Brain MRI | | C0881827 |
| LN | 44139-4 | PET whole body | 702767007 | C1715409 |
| LN | 44138-6 | Brain PET | 241434002 | C0412493 |
| LN | 42175-0 | Radionuclide scan of whole body | 229033006 | C1626178 |
| LN | 24730-4 | Radionuclide brain scan | 41440006 | C0581582 |
| DCM | 127901 | SPECT of whole body | | |
| LN | 39632-5 | Brain SPECT | | C1543694 |
| DCM | 127902 | SPECT CT of whole body | | |
| SRT | P5-B0008 | Ultrasonography of total body | 24135002 | C0203309 |

Note

1. The inconsistent pattern of modality and anatomy in the code meaning is present in the source coding scheme (e.g., "Whole body CT" versus "PET whole body"), and not changed, except where necessary (e.g., (42175-0, LN, "Radionuclide scan of whole body") is actually just "scan of whole body" in the source scheme, which is insufficient, so "radionuclide" has been added).
2. The UMLS codes that map to the SNOMED concepts, when present, are shown, in the cases when UMLS is lacking a mapping between the LOINC and SNOMED codes. E.g., (44138-6, LN, "Brain PET") maps directly to (C1715408, UMLS, "Multisection:Find:Pt:Brain:Doc:Radnuc.PET"), but (P5-0A001, SRT, "PET Brain Study") maps to (C0412493, UMLS, "PET Brain Study"), which is used instead. In general, UMLS does not unify the mappings from LOINC and SNOMED, presumably due to the lexical dissimilarity of the terms (i.e., the LOINC mapping seems to be based on the fully-specified name rather than the long common name).

CID 647 Position Reference Indicator for Frame of Reference

Type: Extensible
Version: 20151110

Table CID 647. Position Reference Indicator for Frame of Reference

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| FMA | 264776 | Bregma | | C0934419 |
| FMA | 264773 | Lambda | | C0926407 |

Note

An FMA code is used for bregma since SNOMED only contains fetal bregma.

CID 701 Content Assessment Types

Type: Extensible
Version: 20160318

Table CID 701. Content Assessment Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 702 "RT Content Assessment Types"</i> | | |

CID 702 RT Content Assessment Types

Type: Extensible
Version: 20160318

Table CID 702. RT Content Assessment Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------------|
| DCM | 121373 | RT Pre-Treatment Dose Check |
| DCM | 121374 | RT Pre-Treatment Consistency Check |

CID 703 Basis of Assessment

Type: Extensible
Version: 20160318

Table CID 703. Basis of Assessment

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | 121375 | Assessment By Comparison |
| DCM | 121376 | Assessment By Rules |

CID 1000 CT Transverse Plane Reference Basis

The items in this context group provide the basis for defining transverse planes associated with the limits of CT acquisitions and re-constructions. It includes body structures, morphologic abnormalities and physical objects that may be the subject or serve as points of reference for imaging.

Type: Extensible
Version: 20160905

Table CID 1000. CT Transverse Plane Reference Basis

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--|----------------------|------------------------|
| <i>Include CID 1001 "Anatomical Reference Basis"</i> | | | | |
| SRT | M-01000 | Morphologically abnormal structure Abnormal Structure | 49755003 | C0332447 |
| SRT | A-12000 | Orthopedic device | 16349000 | C0029352 |
| SRT | A-11100 | Cardiac pacemaker | 14106009 | C0030163 |
| SRT | A-04010 | Implant, device | 40388003 | C0021102 |
| SRT | A-25500 | Stent, device | 65818007 | C0038257 |
| DCM | 128160 | Acquired Volume | | |

CID 1001 Anatomical Reference Basis

The items in this context group are body structures commonly used as a reference basis for imaging.

Type: Extensible
Version: 20160905

Table CID 1001. Anatomical Reference Basis

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------|----------------------|------------------------|
| <i>Include CID 1002 "Anatomical Reference Basis - Head"</i> | | | | |
| <i>Include CID 1003 "Anatomical Reference Basis - Spine"</i> | | | | |
| <i>Include CID 1004 "Anatomical Reference Basis - Chest"</i> | | | | |
| <i>Include CID 1005 "Anatomical Reference Basis - Abdomen/Pelvis"</i> | | | | |
| <i>Include CID 1006 "Anatomical Reference Basis - Extremities"</i> | | | | |

CID 1002 Anatomical Reference Basis - Head

The items in this context group are body structures in the head commonly used as a reference basis for imaging.

Type: Extensible
Version: 20160905

Table CID 1002. Anatomical Reference Basis - Head

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | T-45010 | Carotid Artery | 69105007 | C0007272 |
| SRT | T-AB200 | External Auditory Meatus | 84301002 | C0013444 |
| SRT | T-11106 | Foramen Magnum | 24532009 | C0016519 |
| SRT | T-22200 | Frontal sinus | 55060009 | C0016734 |
| SRT | T-11134 | Internal Auditory Meatus | 61671002 | C0222711 |
| SRT | T-AA813 | Lateral Canthus | 61242005 | C0229246 |
| SRT | T-11180 | Mandible | 91609006 | C0024687 |
| SRT | T-11133 | Mastoid bone | 59066005 | C0446908 |
| SRT | T-AB500 | Mastoid cells and antra | 91716001 | C0229422 |
| SRT | T-22100 | Maxillary sinus | 15924003 | C0024957 |
| FMA | 264779 | Nasion | | C0934420 |
| SRT | T-D14AE | Orbital structure | 363654007 | C0029180 |
| SRT | T-D1460 | Pituitary Fossa | 42575006 | C0036609 |
| SRT | T-11100 | Skull | 89546000 | C0037303 |
| SRT | T-11130 | Temporal Bone | 60911003 | C0039484 |
| SRT | T-D1120 | Vertex of Head | 88986008 | C0230003 |

Note

1. (T-11134, SRT, "Internal Auditory Meatus") is also known as the "Internal Auditory Canal".
2. (T-AB200, SRT, "External Auditory Meatus") is also known as the "External Auditory Canal".
3. (T-D1460, SRT, "Pituitary Fossa") is also known as the "Sella Turcica".

CID 1003 Anatomical Reference Basis - Spine

The items in this context group are body structures in the spine commonly used as a reference basis for imaging.

Type: Extensible
Version: 20160905

Table CID 1003. Anatomical Reference Basis - Spine

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | T-11610 | C1 vertebra | 14806007 | C0004170 |
| SRT | T-D005D | Level of C2/C3 intervertebral disc | 243902007 | C0446383 |
| SRT | T-D005E | Level of C3/C4 intervertebral disc | 243903002 | C0446384 |
| SRT | T-D005F | Level of C4/C5 intervertebral disc | 243904008 | C0446385 |
| SRT | T-D007C | Level of C5/C6 intervertebral disc | 243905009 | C0446386 |
| SRT | T-D007D | Level of C6/C7 intervertebral disc | 243906005 | C0446387 |
| SRT | T-D009C | Level of C7/T1 intervertebral disc | 243925008 | C0446406 |
| SRT | T-D0097 | Level of L1/L2 intervertebral disc | 243920003 | C0446401 |
| SRT | T-D0098 | Level of L2/L3 intervertebral disc | 243921004 | C0446402 |
| SRT | T-D0099 | Level of L3/L4 intervertebral disc | 243922006 | C0446404 |
| SRT | T-D009A | Level of L4/L5 intervertebral disc | 243923001 | C0446403 |
| SRT | T-D009E | Level of L5/S1 intervertebral disc | 243927000 | C0446408 |
| SRT | T-D007F | Level of T1/T2 intervertebral disc | 243908006 | C0446389 |
| SRT | T-D0094 | Level of T10/T11 intervertebral disc | 243917006 | C0446398 |
| SRT | T-D0095 | Level of T11/T12 intervertebral disc | 243918001 | C0446399 |
| SRT | T-D009D | Level of T12/L1 intervertebral disc | 243926009 | C0446407 |
| SRT | T-D008B | Level of T2/T3 intervertebral disc | 243909003 | C0446390 |
| SRT | T-D008C | Level of T3/T4 intervertebral disc | 243910008 | C0446391 |
| SRT | T-D008D | Level of T4/T5 intervertebral disc | 243911007 | C0446392 |
| SRT | T-D008E | Level of T5/T6 intervertebral disc | 243912000 | C0446393 |
| SRT | T-D008F | Level of T6/T7 intervertebral disc | 243913005 | C0446394 |
| SRT | T-D0091 | Level of T7/T8 intervertebral disc | 243914004 | C0446395 |
| SRT | T-D0092 | Level of T8/T9 intervertebral disc | 243915003 | C0446396 |
| SRT | T-D0093 | Level of T9/T10 intervertebral disc | 243916002 | C0446397 |

CID 1004 Anatomical Reference Basis - Chest

The items in this context group are body structures in the chest commonly used as a reference basis for imaging.

Type: Extensible
Version: 20160905

Table CID 1004. Anatomical Reference Basis - Chest

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | T-15420 | Acromioclavicular Joint | 85856004 | C0001208 |
| SRT | T-42300 | Aortic Arch | 57034009 | C0003489 |
| SRT | T-32004 | Apex of heart | 13383001 | C0225811 |
| SRT | T-25201 | Carina | 28700002 | C0225594 |
| SRT | T-41065 | Coronary artery graft | 264293000 | C0440761 |
| SRT | T-D3400 | Diaphragm | 5798000 | C0011980 |
| SRT | T-32000 | Heart | 80891009 | C0018787 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | T-28000 | Lung | 39607008 | C0024109 |
| SRT | T-12280 | Scapula | 79601000 | C0036277 |
| SRT | T-D2220 | Shoulder region structure | 16982005 | C0037004 |
| SRT | T-15610 | Sternoclavicular Joint | 7844006 | C0038291 |
| SRT | T-11210 | Sternum | 56873002 | C0038293 |
| SRT | T-11218 | Suprasternal Notch | 26493002 | C0222769 |
| SRT | T-D3160 | Thoracic Inlet | 42973007 | C0230137 |
| SRT | T-11227 | Xiphoid Process | 20298003 | C0043356 |

Note

(T-11218, SRT, "Suprasternal Notch") is also known as the "Jugular Notch (of Sternum) " and the "Sternal Notch".

CID 1005 Anatomical Reference Basis - Abdomen/Pelvis

The items in this context group are body structures in the abdomen and pelvis commonly used as a reference basis for imaging.

Type: Extensible
Version: 20160905

Table CID 1005. Anatomical Reference Basis - Abdomen/Pelvis

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | T-12390 | Acetabulum | 37783008 | C0000962 |
| SRT | T-B3000 | Adrenal gland | 23451007 | C0001625 |
| SRT | R-10258 | Common iliac artery bifurcation | 413896006 | C1531837 |
| SRT | T-12711 | Femoral head | 2812003 | C0015813 |
| SRT | T-15710 | Hip joint | 24136001 | C0019558 |
| SRT | T-1234A | Iliac Crest | 29850006 | C0223651 |
| SRT | T-12350 | Ischium | 85710004 | C0022122 |
| SRT | T-71000 | Kidney | 64033007 | C0022646 |
| SRT | T-12714 | Lesser trochanter | 55499008 | C0223866 |
| SRT | T-62000 | Liver | 10200004 | C0023884 |
| SRT | T-65000 | Pancreas | 15776009 | C0030274 |
| SRT | T-11AD0 | Sacrum | 54735007 | C0036037 |
| SRT | T-15690 | Symphysis pubis | 82561000 | C0034015 |

Note

(T-15690, SRT, "Symphysis pubis") is also known as the "Pubic Symphysis".

CID 1006 Anatomical Reference Basis - Extremities

The items in this context group are body structures in the extremities commonly used as a reference basis for imaging.

Type: Extensible
Version: 20160905

Table CID 1006. Anatomical Reference Basis - Extremities

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | T-15750 | Ankle joint | 70258002 | C0003087 |
| SRT | T-15430 | Elbow joint | 16953009 | C0013770 |
| SRT | T-D9700 | Foot | 56459004 | C0016504 |
| SRT | T-15720 | Knee joint | 49076000 | C0022745 |
| SRT | T-127A7 | Malleolar structure of tibia | 314796009 | C1282383 |
| SRT | T-12540 | Metacarpal | 36455000 | C0025526 |
| SRT | T-12730 | Patella | 64234005 | C0030647 |
| SRT | T-12450 | Scaphoid | 30518006 | C0223724 |
| SRT | T-12780 | Talus | 67453005 | C0039277 |
| SRT | T-1273F | Tibial Plateau | 306783000 | C0584640 |
| SRT | T-D9800 | Toe | 29707007 | C0040357 |
| SRT | T-15460 | Wrist joint | 74670003 | C1322271 |

Note

(T-12450, SRT, "Scaphoid") is also known as the "Radial Carpal".

CID 1010 Reference Geometry - Planes

The items in this context group identify a specific plane associated with a reference basis (see CID 1000 "CT Transverse Plane Reference Basis"). The plane is defined by the intersection of the scan plane with the specified extent of the reference basis.

Type: Extensible
Version: 20160905

Table CID 1010. Reference Geometry - Planes

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------|
| DCM | 128128 | Plane through Anterior Extent |
| DCM | 128123 | Plane through Distal Extent |
| DCM | 128121 | Plane through Inferior Extent |
| DCM | 128125 | Plane through Lateral Extent |
| DCM | 128126 | Plane through Leftmost Extent |
| DCM | 128124 | Plane through Medial Extent |
| DCM | 128130 | Plane through Center |
| DCM | 128129 | Plane through Posterior Extent |
| DCM | 128122 | Plane through Proximal Extent |
| DCM | 128127 | Plane through Rightmost Extent |
| DCM | 128120 | Plane through Superior Extent |

CID 1011 Reference Geometry - Points

The items in this context group identify a specific point associated with a reference basis (see CID 1000 "CT Transverse Plane Reference Basis").

Type: Extensible
Version: 20160905

Table CID 1011. Reference Geometry - Points

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------|
| DCM | 128137 | Geometric Centerpoint |
| DCM | 128138 | Center of Mass |

CID 1015 Patient Alignment Methods

The items in this context group identify methods for aligning a patient (or other imaging subject) in a scanner.

Type: Extensible
Version: 20160905

Table CID 1015. Patient Alignment Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------|
| DCM | 128151 | Laser Cross-hairs |

CID 1200 Contraindications For CT Imaging

The items in this context group identify possible contraindications for specific CT imaging protocols. Contraindications for CT imaging in general, irrespective of the Protocol used, are not included here.

Type: Extensible
Version: 20160905

Table CID 1200. Contraindications For CT Imaging

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | DF-10F42 | X-ray Contrast Media Allergy | 293638001 | C0570563 |
| SRT | DF-10F41 | Contrast Media Allergy | 293637006 | C0570562 |
| SRT | F-84000 | Patient currently pregnant | 77386006 | C0549206 |
| SRT | D7-11007 | Impaired Renal Function | 236423003 | C1565489 |

CID 3000 Audio Channel Source

Type: Extensible
Version: 20040326

Table CID 3000. Audio Channel Source

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------|
| DCM | 109110 | Voice |
| DCM | 109111 | Operator's narrative |
| DCM | 109112 | Ambient room environment |
| DCM | 109113 | Doppler audio |
| DCM | 109114 | Phonocardiogram |
| DCM | 109115 | Physiological audio signal |

CID 3001 ECG Leads

This Context Group comprises the ECG lead identifiers of ISO/IEEE 11073-10101, including human and canine leads. The terms included in the table below may not constitute the complete list; see the ISO/IEEE Standard.

Note

Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10101 available through <http://standards.ieee.org>.

Type: Extensible
Version: 20130613

Table CID 3001. ECG Leads

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|---------------------------------------|--|
| MDC | 2:71 | Lead A (Nehb - Anterior) | MDC_ECG_LEAD_A |
| MDC | 2:75 | Auxiliary unipolar lead 1 | MDC_ECG_LEAD_A1 |
| MDC | 2:76 | Auxiliary unipolar lead 2 | MDC_ECG_LEAD_A2 |
| MDC | 2:77 | Auxiliary unipolar lead 3 | MDC_ECG_LEAD_A3 |
| MDC | 2:78 | Auxiliary unipolar lead 4 | MDC_ECG_LEAD_A4 |
| MDC | 2:127 | Auxiliary bipolar lead 1 | MDC_ECG_LEAD_AB1 |
| MDC | 2:128 | Auxiliary bipolar lead 2 | MDC_ECG_LEAD_AB2 |
| MDC | 2:129 | Auxiliary bipolar lead 3 | MDC_ECG_LEAD_AB3 |
| MDC | 2:130 | Auxiliary bipolar lead 4 | MDC_ECG_LEAD_AB4 |
| MDC | 2:133 | EASI Lead AI | MDC_ECG_LEAD_AI |
| MDC | 2:132 | EASI Lead AS | MDC_ECG_LEAD_AS |
| MDC | 2:64 | aVF, augmented voltage, foot | MDC_ECG_LEAD_AVF |
| MDC | 2:63 | aVL, augmented voltage, left | MDC_ECG_LEAD_AVL |
| MDC | 2:62 | aVR, augmented voltage, right | MDC_ECG_LEAD_AVR |
| MDC | 2:65 | -aVR | MDC_ECG_LEAD_AVRneg |
| MDC | 2:86 | Chest lead | MDC_ECG_LEAD_C |
| MDC | 2:124 | negative: low right scapula Lead | MDC_ECG_LEAD_CB5 |
| MDC | 2:98 | Chest lead (symmetric placement) | MDC_ECG_LEAD_CC |
| MDC | 2:99 | Chest lead per V1 and V1R placement | MDC_ECG_LEAD_CC1 |
| MDC | 2:100 | Chest lead per V2 and V2R placement | MDC_ECG_LEAD_CC2 |
| MDC | 2:101 | Chest lead per V3 and V3R placement | MDC_ECG_LEAD_CC3 |
| MDC | 2:102 | Chest lead per V4 and V4R placement | MDC_ECG_LEAD_CC4 |
| MDC | 2:19 | Chest lead per V5 and V5R placement | MDC_ECG_LEAD_CC5 |
| MDC | 2:103 | Chest lead per V6 and V6R placement | MDC_ECG_LEAD_CC6 |
| MDC | 2:104 | Chest lead per V7 and V8R placement | MDC_ECG_LEAD_CC7 |
| MDC | 2:122 | Lead CH5 | MDC_ECG_LEAD_CH5 |
| MDC | 2:105 | Chest-manubrium lead | MDC_ECG_LEAD_CM |
| MDC | 2:106 | Chest-manubrium lead per V1 placement | MDC_ECG_LEAD_CM1 |
| MDC | 2:107 | Chest-manubrium lead per V2 placement | MDC_ECG_LEAD_CM2 |
| MDC | 2:108 | Chest-manubrium lead per V3 placement | MDC_ECG_LEAD_CM3 |
| MDC | 2:109 | Chest-manubrium lead per V4 placement | MDC_ECG_LEAD_CM4 |
| MDC | 2:20 | Chest-manubrium lead per V5 placement | MDC_ECG_LEAD_CM5 |
| MDC | 2:110 | Chest-manubrium lead per V6 placement | MDC_ECG_LEAD_CM6 |
| MDC | 2:121 | Chest-manubrium lead per V7 placement | MDC_ECG_LEAD_CM7 |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|--|--|
| MDC | 2:125 | Lead CR5 | MDC_ECG_LEAD_CR5 |
| MDC | 2:123 | negative: right infraclavicular fossa | MDC_ECG_LEAD_CS5 |
| MDC | 2:148 | Canine, fifth right intercostal space near edge of sternum | MDC_ECG_LEAD_CV5RL |
| MDC | 2:149 | Canine, sixth left intercostal space near edge of sternum | MDC_ECG_LEAD_CV6LL |
| MDC | 2:150 | Canine, sixth left intercostal space at costochondral junction | MDC_ECG_LEAD_CV6LU |
| MDC | 2:70 | Lead D (Nehb - Dorsal) | MDC_ECG_LEAD_D |
| MDC | 2:114 | Derived Lead aVF | MDC_ECG_LEAD_dAVF |
| MDC | 2:113 | Derived Lead aVL | MDC_ECG_LEAD_dAVL |
| MDC | 2:112 | Derived Lead aVR | MDC_ECG_LEAD_dAVR |
| MDC | 2:73 | Defibrillator lead: anterior-lateral | MDC_ECG_LEAD_DEFIB |
| MDC | 2:31 | Derived Lead I | MDC_ECG_LEAD_dI |
| MDC | 2:32 | Derived Lead II | MDC_ECG_LEAD_dII |
| MDC | 2:111 | Derived Lead III | MDC_ECG_LEAD_dIII |
| MDC | 2:33 | Derived Lead V1 | MDC_ECG_LEAD_dV1 |
| MDC | 2:34 | Derived Lead V2 | MDC_ECG_LEAD_dV2 |
| MDC | 2:35 | Derived Lead V3 | MDC_ECG_LEAD_dV3 |
| MDC | 2:36 | Derived Lead V4 | MDC_ECG_LEAD_dV4 |
| MDC | 2:37 | Derived Lead V5 | MDC_ECG_LEAD_dV5 |
| MDC | 2:38 | Derived Lead V6 | MDC_ECG_LEAD_dV6 |
| MDC | 2:131 | EASI Lead ES | MDC_ECG_LEAD_ES |
| MDC | 2:74 | External pacing lead: anterior-posterior | MDC_ECG_LEAD_EXTERN |
| MDC | 2:27 | Frank Lead A | MDC_ECG_LEAD_fA |
| MDC | 2:26 | Frank Lead C | MDC_ECG_LEAD_fC |
| MDC | 2:25 | Frank Lead E | MDC_ECG_LEAD_fE |
| MDC | 2:29 | Frank Lead F | MDC_ECG_LEAD_fF |
| MDC | 2:30 | Frank Lead H | MDC_ECG_LEAD_fH |
| MDC | 2:24 | Frank Lead I | MDC_ECG_LEAD_fI |
| MDC | 2:28 | Frank Lead M | MDC_ECG_LEAD_fM |
| MDC | 2:1 | Lead I | MDC_ECG_LEAD_I |
| MDC | 2:2 | Lead II | MDC_ECG_LEAD_II |
| MDC | 2:61 | Lead III | MDC_ECG_LEAD_III |
| MDC | 2:72 | Lead J (Nehb - Inferior) | MDC_ECG_LEAD_J |
| MDC | 2:21 | Left Arm Lead | MDC_ECG_LEAD_LA |
| MDC | 2:23 | Left Leg Lead | MDC_ECG_LEAD_LL |
| MDC | 2:91 | Modified chest lead (left arm indifferent) | MDC_ECG_LEAD_MCL |
| MDC | 2:92 | Modified chest lead per V1 placement | MDC_ECG_LEAD_MCL1 |
| MDC | 2:93 | Modified chest lead per V2 placement | MDC_ECG_LEAD_MCL2 |
| MDC | 2:94 | Modified chest lead per V3 placement | MDC_ECG_LEAD_MCL3 |
| MDC | 2:95 | Modified chest lead per V4 placement | MDC_ECG_LEAD_MCL4 |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|--|--|
| MDC | 2:96 | Modified chest lead per V5 placement | MDC_ECG_LEAD_MCL5 |
| MDC | 2:97 | Modified chest lead per V6 placement | MDC_ECG_LEAD_MCL6 |
| MDC | 2:126 | Modified limb lead | MDC_ECG_LEAD_ML |
| MDC | 2:22 | Right Arm Lead | MDC_ECG_LEAD_RA |
| MDC | 2:147 | Right Leg Lead | MDC_ECG_LEAD_RL |
| MDC | 2:134 | EASI upper sternum lead | MDC_ECG_LEAD_S |
| MDC | 2:87 | Precordial lead | MDC_ECG_LEAD_V |
| MDC | 2:3 | Lead V1 | MDC_ECG_LEAD_V1 |
| MDC | 2:151 | Canine, over dorsal spinous process of 7th thoracic vertebra | MDC_ECG_LEAD_V10 |
| MDC | 2:4 | Lead V2 | MDC_ECG_LEAD_V2 |
| MDC | 2:10 | Lead V2R | MDC_ECG_LEAD_V2R |
| MDC | 2:5 | Lead V3 | MDC_ECG_LEAD_V3 |
| MDC | 2:11 | Lead V3R | MDC_ECG_LEAD_V3R |
| MDC | 2:6 | Lead V4 | MDC_ECG_LEAD_V4 |
| MDC | 2:12 | Lead V4R | MDC_ECG_LEAD_V4R |
| MDC | 2:7 | Lead V5 | MDC_ECG_LEAD_V5 |
| MDC | 2:13 | Lead V5R | MDC_ECG_LEAD_V5R |
| MDC | 2:8 | Lead V6 | MDC_ECG_LEAD_V6 |
| MDC | 2:14 | Lead V6R | MDC_ECG_LEAD_V6R |
| MDC | 2:9 | Lead V7 | MDC_ECG_LEAD_V7 |
| MDC | 2:15 | Lead V7R | MDC_ECG_LEAD_V7R |
| MDC | 2:66 | Lead V8 | MDC_ECG_LEAD_V8 |
| MDC | 2:68 | Lead V8R | MDC_ECG_LEAD_V8R |
| MDC | 2:67 | Lead V9 | MDC_ECG_LEAD_V9 |
| MDC | 2:69 | Lead V9R | MDC_ECG_LEAD_V9R |
| MDC | 2:90 | Lead VF, nonaugmented voltage, vector of LL | MDC_ECG_LEAD_VF |
| MDC | 2:89 | Lead VL, nonaugmented voltage, vector of LA | MDC_ECG_LEAD_VL |
| MDC | 2:88 | Lead VR, nonaugmented voltage, vector of RA | MDC_ECG_LEAD_VR |
| MDC | 2:16 | Lead X | MDC_ECG_LEAD_X |
| MDC | 2:17 | Lead Y | MDC_ECG_LEAD_Y |
| MDC | 2:18 | Lead Z | MDC_ECG_LEAD_Z |
| MDC | 2:0 | Unspecified lead | MDC_ECG_LEAD_CONFIG |

Note

1. A prior version of this context group used codes from the SCP-ECG vocabulary.
2. In a prior version of this table, the code 2:26 was specified for the concept Chest lead and the code 2:19 was specified for the concept Chest-manubrium lead per V5 placement.

CID 3003 Hemodynamic Waveform Sources

Type: Extensible
Version: 20020904

Table CID 3003. Hemodynamic Waveform Sources

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | G-DB22 | Aortic pressure waveform | 128444004 | C1264738 |
| SRT | G-DB31 | Aortic valve pullback pressure waveform | 128453006 | C1264746 |
| SRT | G-DB24 | Arterial pressure waveform | 128446002 | C0444695 |
| SRT | G-DB23 | Central venous pressure waveform | 128445003 | C1264739 |
| SRT | G-DB33 | Dye dilution cardiac output waveform | 128455004 | C1264748 |
| SRT | G-DB20 | Femoral artery pressure waveform | 128442000 | C1264737 |
| SRT | G-DB12 | Hemodynamic flow waveform | 128434001 | C1264729 |
| SRT | G-DB34 | Hemodynamic impedance waveform | 128552003 | C1264749 |
| SRT | G-DB13 | Hemodynamic oxygen saturation waveform | 128435000 | C1264730 |
| SRT | G-DB11 | Hemodynamic pressure waveform | 128433007 | C1264728 |
| SRT | G-DB10 | Hemodynamic waveform | 128432002 | C1264727 |
| SRT | G-DB19 | Left atrium pressure waveform | 128441007 | C1264736 |
| SRT | G-DB16 | Left ventricle pressure waveform | 128438003 | C1264733 |
| SRT | G-DB28 | Mitral valve pullback pressure waveform | 128450009 | C1264743 |
| SRT | G-DB25 | Pulmonary artery oxygen saturation waveform | 128447006 | C1264740 |
| SRT | G-DB21 | Pulmonary artery pressure waveform | 128443005 | C0428729 |
| SRT | G-DB27 | Pulmonary artery wedge pressure waveform | 128449009 | C1264742 |
| SRT | G-DB26 | Pulmonary capillary wedge pressure waveform | 128448001 | C1264741 |
| SRT | G-DB30 | Pulmonary valve pullback pressure waveform | 128452001 | C1264745 |
| SRT | G-DB14 | Respiration impedance waveform | 128436004 | C1264731 |
| SRT | G-DB18 | Right atrium pressure waveform | 128440008 | C1264735 |
| SRT | G-DB17 | Right ventricle pressure waveform | 128439006 | C1264734 |
| SRT | G-DB15 | Temperature waveform | 128437008 | C1264732 |
| SRT | G-DB32 | Thermal cardiac output waveform | 128454000 | C1264747 |
| SRT | G-DB29 | Tricuspid valve pullback pressure waveform | 128451008 | C1264744 |

CID 3004 Arterial Pulse Waveform

Type: Extensible
Version: 20090409

Table CID 3004. Arterial Pulse Waveform

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------|
| DCM | 109116 | Arterial Pulse Waveform |

CID 3005 Respiration Waveform

Type: Extensible
Version: 20090409

Table CID 3005. Respiration Waveform

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------|
| DCM | 109117 | Respiration Waveform |

CID 3010 Cardiovascular Anatomic Locations

Type: Extensible
Version: ~~20160314~~20170413

Table CID 3010. Cardiovascular Anatomic Locations

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | T-42500 | Abdominal aorta | 7832008 | C0003484 |
| SRT | T-48503 | Anomalous pulmonary vein | 128585006 | C0265914 |
| SRT | T-49215 | Antecubital vein | 128553008 | C1276271 |
| SRT | T-48440 | Anterior cardiac vein | 43967001 | C0226661 |
| SRT | T-45530 | Anterior communicating artery | 8012006 | C0149562 |
| SRT | T-45730 | Anterior spinal artery | 17388009 | C0149603 |
| SRT | T-47700 | Anterior tibial artery | 68053000 | C0085816 |
| SRT | T-42000 | Aorta | 15825003 | C0003483 |
| SRT | T-42300 | Aortic arch | 57034009 | C0003489 |
| SRT | D3-81922 | Aortic fistula | 128551005 | C1290392 |
| SRT | T-32602 | Apex of left ventricle | 128564006 | C0580781 |
| SRT | T-32502 | Apex of right ventricle | 128565007 | C0445242 |
| SRT | T-41000 | Artery | 51114001 | C0003842 |
| SRT | T-42100 | Ascending aorta | 54247002 | C0003956 |
| SRT | T-47100 | Axillary Artery | 67937003 | C0004455 |
| SRT | T-49110 | Axillary vein | 68705008 | C0004456 |
| SRT | T-48340 | Azygos vein | 72107004 | C0004526 |
| SRT | A-00203 | Baffle | 128981007 | C1289790 |
| SRT | T-45800 | Basilar artery | 59011009 | C0004811 |
| SRT | T-D00AB | Body conduit | 91830000 | C1735317 |
| SRT | T-49424 | Boyd's perforating vein | 128548003 | C1267522 |
| SRT | T-47160 | Brachial artery | 17137000 | C0006087 |
| SRT | T-49350 | Brachial vein | 20115005 | C0226812 |
| SRT | T-45010 | Carotid Artery | 69105007 | C0007272 |
| SRT | T-49240 | Cephalic vein | 20699002 | C0226802 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | T-45510 | Cerebral artery | 88556005 | C0007770 |
| SRT | D4-31005 | Common atrium | 253276007 | C0392482 |
| SRT | T-45100 | Common carotid artery | 32062004 | C0162859 |
| SRT | T-46710 | Common iliac artery | 73634005 | C1261084 |
| SRT | T-48920 | Common iliac vein | 46027005 | C0226758 |
| SRT | D4-31120 | Common ventricle | 45503006 | C0152424 |
| SRT | D4-32504 | Congenital coronary artery fistula to left atrium | 128555001 | C1290487 |
| SRT | D4-32506 | Congenital coronary artery fistula to left ventricle | 128556000 | C1290488 |
| SRT | D4-32509 | Congenital coronary artery fistula to right atrium | 128557009 | C1290489 |
| SRT | D4-32510 | Congenital coronary artery fistula to right ventricle | 128558004 | C1290490 |
| SRT | D3-40208 | Congenital pulmonary arteriovenous fistula | 111289009 | C0155675 |
| SRT | T-43000 | Coronary artery | 41801008 | C0205042 |
| SRT | T-48410 | Coronary sinus | 90219004 | C0456944 |
| SRT | T-42400 | Descending aorta | 32672002 | C3163626 |
| SRT | T-49429 | Dodd's perforating vein | 128554002 | C1267525 |
| SRT | T-45200 | External carotid artery | 22286001 | C0007275 |
| SRT | T-46910 | External iliac artery | 113269004 | C0226398 |
| SRT | T-48930 | External iliac vein | 63507001 | C0226761 |
| SRT | T-45240 | Facial artery | 23074001 | C0226109 |
| SRT | T-47400 | Femoral artery | 7657000 | C0015801 |
| SRT | T-49410 | Femoral vein | 83419000 | C0015809 |
| SRT | T-48820 | Gastric vein | 110568007 | C0750610 |
| SRT | T-47490 | Genicular artery | 128559007 | C0447108 |
| SRT | T-48420 | Great cardiac vein | 5928000 | C0226659 |
| SRT | T-46420 | Hepatic artery | 76015000 | C0019145 |
| SRT | T-48720 | Hepatic vein | 8993003 | C0019155 |
| SRT | T-4942A | Hunterian perforating vein | 128560002 | C1267526 |
| SRT | T-46700 | Iliac artery | 10293006 | C0020887 |
| SRT | T-48470 | Inferior cardiac vein | 60477001 | C1267462 |
| SRT | T-48540 | Inferior left pulmonary vein | 51249003 | C0226686 |
| SRT | T-46520 | Inferior mesenteric artery | 33795007 | C0162860 |
| SRT | T-48520 | Inferior right pulmonary vein | 113273001 | C0226676 |
| SRT | T-48710 | Inferior vena cava | 64131007 | C0042458 |
| SRT | T-46010 | Innominate artery | 12691009 | C0006094 |
| SRT | T-48620 | Innominate vein | 8887007 | C0006095 |
| SRT | T-45300 | Internal carotid artery | 86117002 | C0007276 |
| SRT | T-48170 | Internal jugular vein | 12123001 | C0226550 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | T-46740 | Internal iliac artery | 90024005 | C0226364 |
| SRT | T-46200 | Internal mammary artery | 69327007 | C0226276 |
| SRT | D4-31052 | Juxtaposed atrial appendage | 128563000 | C1290478 |
| SRT | T-45410 | Lacrimal artery | 59749000 | C0226171 |
| SRT | T-45416 | Lacrimal artery of right eye | 128979005 | C0923299 |
| SRT | T-32300 | Left atrium | 82471001 | C0225860 |
| SRT | T-32310 | Left auricular appendage | 33626005 | C0225861 |
| SRT | T-47420 | Left femoral artery | 113270003 | C0226448 |
| SRT | T-44400 | Left pulmonary artery | 50408007 | C0226069 |
| SRT | T-32600 | Left ventricle | 87878005 | C0225897 |
| SRT | T-32640 | Left ventricle inflow | 70238003 | C0225911 |
| SRT | D4-31022 | Left ventricle outflow chamber | 128570000 | C1290476 |
| SRT | T-32650 | Left ventricle outflow tract | 13418002 | C0225912 |
| SRT | T-45230 | Lingual artery | 113264009 | C0226104 |
| SRT | T-46960 | Lumbar artery | 34635009 | C0226408 |
| SRT | T-46500 | Mesenteric artery | 86570000 | C0025465 |
| SRT | T-4884A | Mesenteric vein | 128583004 | C0025473 |
| SRT | T-45250 | Occipital artery | 31145008 | C0226117 |
| SRT | T-48214 | Occipital vein | 32114007 | C0226579 |
| SRT | T-45400 | Ophthalmic artery | 53549008 | C0029078 |
| SRT | D4-32012 | Patent ductus arteriosus | 83330001 | C0013274 |
| SRT | T-47630 | Peroneal artery | 8821006 | C0226476 |
| SRT | T-47500 | Popliteal artery | 43899006 | C0032649 |
| SRT | T-48810 | Portal vein | 32764006 | C0032718 |
| SRT | T-45320 | Posterior communication artery | 43119007 | C0149559 |
| SRT | T-49535 | Posterior medial tributary | 128569001 | C1267527 |
| SRT | T-47600 | Posterior tibial artery | 13363002 | C0086835 |
| SRT | T-F7001 | Primitive aorta | 14944004 | C0231136 |
| SRT | T-F7040 | Primitive pulmonary artery | 91707000 | C0231157 |
| SRT | T-44000 | Pulmonary artery | 81040000 | C0034052 |
| SRT | D4-33142 | Pulmonary artery conduit | 128584005 | C1290491 |
| SRT | T-32190 | Pulmonary chamber of cor triatriatum | 128586007 | C1267246 |
| SRT | T-48581 | Pulmonary vein | 122972007 | C0034090 |
| SRT | D4-33512 | Pulmonary vein confluence | 128566008 | C1290492 |
| SRT | D4-33514 | Pulmonary venous atrium | 128567004 | C1290493 |
| SRT | T-47300 | Radial artery | 45631007 | C0162857 |
| SRT | T-46600 | Renal artery | 2841007 | C0035065 |
| SRT | T-48740 | Renal vein | 56400007 | C0035092 |
| SRT | T-32200 | Right atrium | 73829009 | C0225844 |
| SRT | T-32210 | Right auricular appendage | 68300000 | C0225845 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|-----------------|--|----------------------|------------------------|
| SRT | T-47410 | Right femoral artery | 69833005 | C0226447 |
| SRT | T-44200 | Right pulmonary artery | 78480002 | C0226054 |
| SRT | T-32500 | Right ventricle | 53085002 | C0225883 |
| SRT | T-32540 | Right ventricle inflow | 8017000 | C0225891 |
| SRT | D4-31032 | Right ventricle outflow chamber | 128572008 | C1290477 |
| SRT | T-32550 | Right ventricle outflow tract | 44627009 | C0225892 |
| SRT | T-D930A | Saphenofemoral junction | 128587003 | C0447132 |
| SRT | T-49530 | Saphenous vein | 60734001 | C0036186 |
| SRT | T-46460 | Splenic artery | 22083002 | C0037996 |
| SRT | T-48890 | Splenic vein | 35819009 | C0038001 |
| SRT | T-46100 | Subclavian artery | 36765005 | C0038530 |
| SRT | T-48330 | Subclavian vein | 9454009 | C0038532 |
| SRT | T-45270 | Superficial temporal artery | 15672000 | C0226130 |
| SRT | T-48530 | Superior left pulmonary vein | 43863001 | C0226682 |
| SRT | T-46510 | Superior mesenteric artery | 42258001 | C0162861 |
| SRT | T-48510 | Superior right pulmonary vein | 8629005 | C0226671 |
| SRT | T-45210 | Superior thyroid artery | 72021004 | C0226093 |
| SRT | T-48610 | Superior vena cava | 48345005 | C0042459 |
| SRT | T-44007 | Systemic collateral artery to lung | 128589000 | C0345096 |
| SRT | D4-33516 | Systemic venous atrium | 128568009 | C1290494 |
| SRT | T-42070 | Thoracic aorta | 113262008 | C1522460 |
| SRT | D4-31400 | Truncus arteriosus communis | 61959006 | C0041207 |
| SRT | T-46400 | Truncus coeliacus | 57850000 | C0007569 |
| SRT | T-47200 | Ulnar artery | 44984001 | C0162858 |
| SRT | T-F1810 | Umbilical artery | 50536004 | C0041632 |
| SRT | T-48817 | Umbilical vein | 61660003 | C1267489 |
| SRT | T-48000 | Vein | 29092000 | C0042449 |
| SRT | T-48003 | Venous network | 34340008 | C0226503 |
| SRT | T-45700 | Vertebral artery | 85234005 | C0042559 |

CID 3011 Electrophysiology Anatomic Locations

Type: Extensible
Version: 20160314

Table CID 3011. Electrophysiology Anatomic Locations

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| SRT | T-32850 | Accessory atrioventricular bundle | 8225009 | C0006383 |
| SRT | T-32602 | Apex of left ventricle | 128564006 | C0580781 |
| SRT | T-32502 | Apex of right ventricle | 128565007 | C0445242 |
| SRT | T-32830 | Atrioventricular bundle | 345000 | C0006382 |
| SRT | T-32820 | Atrioventricular node | 25943004 | C0004247 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-32400 | Common ventricle | 21814001 | C0018827 |
| SRT | T-48410 | Coronary sinus | 90219004 | C0456944 |
| SRT | T-39010 | Epicardium | 6871001 | C0225968 |
| SRT | T-48420 | Great cardiac vein | 5928000 | C0226659 |
| SRT | G-DE02 | High right atrium | 128591008 | C0456955 |
| SRT | T-48540 | Inferior left pulmonary vein | 51249003 | C0226686 |
| SRT | T-48520 | Inferior right pulmonary vein | 113273001 | C0226676 |
| SRT | G-DE04 | Lateral high right atrium | 128592001 | C1264751 |
| SRT | T-32833 | Left anterior division of left branch atrioventricular bundle | 84654008 | C0225918 |
| SRT | T-32300 | Left Atrium | 82471001 | C0225860 |
| SRT | T-32310 | Left auricular appendage | 33626005 | C0225861 |
| SRT | T-32832 | Left branch of atrioventricular bundle | 74031005 | C0459156 |
| SRT | T-32834 | Left posterior division of left branch atrioventricular bundle | 91085002 | C0225919 |
| SRT | T-32600 | Left ventricle | 87878005 | C0225897 |
| SRT | T-32640 | Left ventricle inflow | 70238003 | C0225911 |
| SRT | T-32650 | Left ventricle outflow tract | 13418002 | C0225912 |
| SRT | G-DE08 | Low right atrium | 128594000 | C0456956 |
| SRT | G-DE06 | Mid right atrium | 128593006 | C0225856 |
| SRT | T-48430 | Middle cardiac vein | 73580002 | C0226660 |
| SRT | T-35310 | Mitral ring | 65197004 | C0225947 |
| SRT | T-48411 | Ostium of coronary sinus | 71271007 | C0226656 |
| SRT | T-48581 | Pulmonary vein | 122972007 | C0034090 |
| SRT | T-35210 | Pulmonic ring | 90318009 | C0225935 |
| SRT | T-32840 | Purkinje fibers | 13050003 | C0034144 |
| SRT | T-35120 | Right atrioventricular ostium | 90561006 | C0225927 |
| SRT | T-32200 | Right Atrium | 73829009 | C0225844 |
| SRT | T-32210 | Right auricular appendage | 68300000 | C0225845 |
| SRT | T-32831 | Right branch of Atrioventricular bundle | 57383004 | C0225916 |
| SRT | T-32500 | Right ventricle | 53085002 | C0225883 |
| SRT | T-32540 | Right ventricle inflow | 8017000 | C0225891 |
| SRT | T-32550 | Right ventricle outflow tract | 44627009 | C0225892 |
| SRT | T-32810 | Sino-atrial node | 88210001 | C0037189 |
| SRT | T-48530 | Superior left pulmonary vein | 43863001 | C0226682 |
| SRT | T-48510 | Superior right pulmonary vein | 8629005 | C0226671 |
| SRT | T-32202 | Tendon of Todaro | 128595004 | C0456939 |
| SRT | T-35110 | Tricuspid ring | 113259005 | C0225926 |

Note

In a prior version of this Context Group the code T-48500 rather than T-48581 was defined for the concept Pulmonary Vein; this was inconsistent with the DICOM approach of selecting the "structure of" rather than "entire" concept. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.

CID 3014 Coronary Artery Segments

Type: Extensible
Version: 20130403

Table CID 3014. Coronary Artery Segments

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Equivalent BARI Code |
|--------------------------|------------|---|----------------------|------------------------|----------------------|
| SRT | T-43117 | 1st Diagonal Coronary Artery | 91750005 | C0524430 | 15 |
| SRT | T-4312B | 1st Left Posterolateral Coronary Artery | 91757008 | C0524437 | 24 |
| SRT | T-43128 | 1st Marginal Coronary Artery | 91754001 | C0524434 | 20 |
| SRT | T-43213 | 1st Right posterolateral Coronary Artery | 91761002 | C0524441 | 6 |
| SRT | T-43002 | 1st Septal Coronary Artery | 244251006 | C0447058 | 17 |
| SRT | T-43118 | 2nd Diagonal Coronary Artery | 91751009 | C0524431 | 16 |
| SRT | T-4312C | 2nd Left Posterolateral Coronary Artery | 91758003 | C0524438 | 25 |
| SRT | T-43129 | 2nd Marginal Coronary Artery | 91755000 | C0524435 | 21 |
| SRT | T-43214 | 2nd Right posterolateral Coronary Artery | 91762009 | C0524442 | 7 |
| SRT | T-43119 | 3rd diagonal Coronary Artery | 91752002 | C0524432 | 29 |
| SRT | T-4312D | 3rd Left Posterolateral Coronary Artery | 91759006 | C0524439 | 26 |
| SRT | T-4312A | 3rd Marginal Coronary Artery | 91756004 | C0524436 | 22 |
| SRT | T-43215 | 3rd Right posterolateral Coronary Artery | 91763004 | C0524443 | 8 |
| SRT | T-43230 | Marginal Coronary Artery | 22765000 | C0226050 | 10 |
| SRT | T-43124 | AV groove continuation of Circumflex Artery | 75902001 | C0226041 | 23 |
| SRT | T-43122 | Distal Circumflex Coronary Artery | 6511003 | C0226039 | 19A |
| SRT | T-43112 | Distal Left Anterior Descending Coronary Artery | 36672000 | C0226034 | 14 |
| SRT | T-43202 | Distal Right Coronary Artery | 41879009 | C0226044 | 3 |
| BARI | 15A | 1st Diagonal Coronary Artery Laterals | | | 15A |
| BARI | 20A | 1st Marginal Coronary Artery Laterals | | | 20A |
| BARI | 16A | 2nd Diagonal Coronary Artery Laterals | | | 16A |
| BARI | 21A | 2nd Marginal Coronary Artery Laterals | | | 21A |
| BARI | 29A | 3rd Diagonal Coronary Artery Laterals | | | 29A |
| BARI | 22A | 3rd Marginal Coronary Artery Laterals | | | 22A |
| BARI | 28A | Ramus Laterals | | | 28A |
| SRT | T-43107 | Left Main Coronary Artery | 3227004 | C0226031 | 11 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Equivalent BARI Code |
|--------------------------|------------|---|----------------------|------------------------|----------------------|
| SRT | T-43105 | Left Main Coronary Artery Ostium | 76862008 | C0226030 | 11A |
| SRT | T-43126 | Left Posterior Descending Artery | 56322004 | C0278433 | 27 |
| SRT | T-43127 | Mid Circumflex Coronary Artery | 91753007 | C0524433 | 19 |
| SRT | T-43115 | Mid Left Anterior Descending Coronary Artery | 91748002 | C0524428 | 13 |
| SRT | T-D6515 | Mid Right Coronary Artery | 450960006 | C3472627 | 2 |
| SRT | T-43210 | Posterior Descending Right Coronary Artery | 53655008 | C0226047 | 4 |
| BARI | 9 | Posterior descending septal perforators | | | 9 |
| SRT | T-43121 | Proximal Circumflex Coronary Artery | 52433000 | C0226038 | 18 |
| SRT | T-43111 | Proximal Left Anterior Descending Coronary Artery | 68787002 | C0226033 | 12 |
| SRT | T-43201 | Proximal Right Coronary Artery | 91083009 | C0226043 | 1 |
| SRT | T-43003 | Intermediate Artery (Ramus) | 244252004 | C0447059 | 28 |
| SRT | T-43205 | Right Coronary Artery Ostium | 56789007 | C0226045 | 1A |
| SRT | T-43212 | Right posterior AV Coronary Artery | 12800002 | C0226048 | 5 |

Note

In prior editions, this Context Group included BARI [1992] codes as the primary set. These have been replaced with equivalent SNOMED codes for the major artery segments (see PS3.16-2011).

CID 3015 Coronary Arteries

Type: **Non-Extensible**
Version: **20130403**

Table CID 3015. Coronary Arteries

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--|----------------------|------------------------|
| <i>Include CID 3014 "Coronary Artery Segments"</i> | | | | |
| SRT | T-43110 | Left Anterior Descending Coronary Artery | 59438005 | C0226032 |
| SRT | T-43200 | Right Coronary Artery | 13647002 | C1261316 |
| SRT | T-43120 | Circumflex Coronary Artery | 57396003 | C0226037 |
| SRT | T-43125 | Left Posterolateral Circumflex Coronary Artery | 57823005 | C0278432 |
| SRT | T-4312E | Left Posterior Descending Circumflex Coronary Artery | 91760001 | C0524440 |
| SRT | T-41065 | Coronary Artery Graft | 264293000 | C0440761 |

CID 3016 Major Coronary Arteries

Type: **Non-Extensible**
Version: **20110818**

Table CID 3016. Major Coronary Arteries

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-43110 | Left Anterior Descending Coronary Artery | 59438005 | C0226032 |
| SRT | T-43200 | Right Coronary Artery | 13647002 | C1261316 |
| SRT | T-43120 | Circumflex Coronary Artery | 57396003 | C0226037 |
| SRT | T-43107 | Left Main Coronary Artery | 3227004 | C0226031 |

CID 3019 Cardiovascular Anatomic Location Modifiers

Type: Extensible
Version: 20160314

Table CID 3019. Cardiovascular Anatomic Location Modifiers

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-404CC | Anterior | 255549009 | C0205094 |
| SRT | G-D873 | Arterial graft to cited segment | 128950003 | C1264698 |
| SRT | G-A110 | Central | 26216008 | C0205099 |
| SRT | G-A119 | Distal | 46053002 | C0205108 |
| SRT | G-D870 | Graft to cited segment, body | 128947001 | C1264695 |
| SRT | G-D872 | Graft to cited segment, distal anastomosis | 128948006 | C1264697 |
| SRT | G-D871 | Graft to cited segment, proximal anastomosis | 128949003 | C1264696 |
| SRT | R-4094A | Inferior | 261089000 | C0205104 |
| SRT | G-A104 | Lateral | 49370004 | C0205093 |
| SRT | G-A101 | Left | 7771000 | C0205091 |
| SRT | R-4215C | Ostium | 264114003 | C0444567 |
| SRT | R-404CE | Posterior | 255551008 | C0205095 |
| SRT | G-A118 | Proximal | 40415009 | C0205107 |
| SRT | G-A100 | Right | 24028007 | C0205090 |
| SRT | R-42191 | Superior | 264217000 | C1282910 |
| SRT | G-D874 | Venous graft to cited segment | 128951004 | C1264699 |
| SRT | T-40003 | Entire Vessel | 361097006 | C1283786 |
| DCM | 122101 | Aneurysm on cited vessel | | |
| DCM | 122102 | Graft to cited segment, proximal section | | |
| DCM | 122103 | Graft to cited segment, mid section | | |
| DCM | 122104 | Graft to cited segment, distal section | | |

CID 3082 Cardiology Units of Measurement (Retired)

This Context Group was a subset of CID 82 "Units of Measurement", and is retired. See PS3.16-2011.

CID 3083 Units of Radioactivity

Type: Extensible
Version: 20080927

Table CID 3083. Units of Radioactivity

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------|
| UCUM | Bq | becquerel |
| UCUM | MBq | megabecquerel |
| UCUM | mCi | millicurie |

CID 3090 Time Synchronization Channel Types

Type: Extensible
Version: 20020904

Table CID 3090. Time Synchronization Channel Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------------|
| DCM | 109001 | Digital timecode (NOS) |
| DCM | 109002 | ECG-based gating signal, processed |
| DCM | 109003 | IRIG-B timecode |
| DCM | 109004 | X-Ray Fluoroscopy On Signal |
| DCM | 109005 | X-Ray On Trigger |

CID 3101 Cardiac Procedural State Values

Type: Extensible
Version: 20091021

Table CID 3101. Cardiac Procedural State Values

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | F-01604 | Resting State | 128975004 | C0679218 |
| SRT | F-05019 | Cardiac Stress State | 432655005 | C2317276 |
| DCM | 109092 | Reinjection State | | |
| DCM | 109093 | Redistribution State | | |
| DCM | 109094 | Delayed Redistribution State | | |

CID 3102 Rest-Stress

Type: Extensible
Version: 20080927

Table CID 3102. Rest-Stress

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | F-01604 | Resting State | 128975004 | C0679218 |
| DCM | 109091 | Cardiac Stress State | | |

CID 3104 Cardiac Synchronization Technique

This Context Group corresponds to the Enumerated Values of Cardiac Synchronization Technique (0018,9037) (see PS3.3).

Type: Non-Extensible
Version: 20111028

Table CID 3104. Cardiac Synchronization Technique

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------|
| DCM | 109080 | Real time acquisition |
| DCM | 109081 | Prospective gating |
| DCM | 109082 | Retrospective gating |
| DCM | 109083 | Paced |

CID 3106 PET Cardiology Protocols

Type: Extensible
Version: 20080927

Table CID 3106. PET Cardiology Protocols

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 122791 | PET Myocardial Perfusion, Rest only |
| DCM | 122792 | PET Myocardial Perfusion, Stress only |
| DCM | 122793 | PET Myocardial Perfusion, Rest and Stress |
| DCM | 122795 | PET Myocardial Viability, Rest only |
| DCM | 122796 | PET Myocardial Viability, Stress only |
| DCM | 122797 | PET Myocardial Viability, Rest and Stress |

CID 3107 PET Cardiology Radiopharmaceuticals

Type: Extensible
Version: 20080927

Table CID 3107. PET Cardiology Radiopharmaceuticals

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | C-B1031 | Fluorodeoxyglucose F ¹⁸ | 35321007 | C0046056 |
| SRT | C-107A1 | ¹³ Nitrogen | 21576001 | C0302959 |
| SRT | C-159A2 | ⁸² Rubidium | 79197006 | C0303554 |

CID 3108 NM/PET Procedures

Type: Extensible
Version: 20160314

Table CID 3108. NM/PET Procedures

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | P5-D30F8 | Nuclear medicine cardiovascular study | 108294005 | C0581579 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | P5-0A006 | PET heart study | 241439007 | C0412498 |
| SRT | P5-D6000 | Radioisotope study of endocrine system | 7562007 | C0203777 |
| SRT | P5-D6500 | Radioisotope study of hematopoietic system | 41842006 | C0203797 |
| SRT | P5-D5000 | Radioisotope study of gastrointestinal system | 53585008 | C0412377 |
| SRT | P5-D0063 | Radionuclide study for localization of inflammatory disease | 252680004 | C0474787 |
| SRT | P5-D1000 | Radioisotope study of musculoskeletal system | 68796002 | C0412452 |
| SRT | P5-D90F8 | Nuclear medicine diagnostic procedure on nervous system | 108300008 | C0412330 |
| SRT | P5-D0040 | Radionuclide localization of tumor | 45316007 | C0203651 |
| SRT | P5-D2000 | Radioisotope study of respiratory system | 19086005 | C0203681 |
| SRT | P5-D7000 | Radioisotope study of genitourinary system | 76927004 | C0203833 |
| SRT | P5-0A001 | PET brain study | 241434002 | C0412493 |
| SRT | P5-0A00D | PET breast study | 416323006 | C1562778 |
| SRT | P5-0A00A | PET study for localization of tumor | 241443006 | C0473941 |

CID 3110 Nuclear Cardiology Protocols

Type: Extensible
Version: 20080927

Table CID 3110. Nuclear Cardiology Protocols

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | P5-D300B | Stress thallium procedure | 431511008 | C2316301 |
| DCM | 122781 | Rest thallium/stress technetium procedure | | |
| DCM | 122782 | Rest technetium/stress technetium 1 day procedure | | |
| DCM | 122783 | Rest technetium/stress technetium 2 day procedure | | |
| DCM | 122784 | Stress technetium/rest technetium 1 day procedure | | |
| DCM | 122785 | NM Myocardial Viability procedure | | |

CID 3111 Nuclear Cardiology Radiopharmaceuticals

Type: Extensible
Version: 20080927

Table CID 3111. Nuclear Cardiology Radiopharmaceuticals

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | C-B1130 | Thallium-201 | 353842007 | C0303322 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------|----------------------|------------------------|
| SRT | C-B10A2 | Tc-99m sestamibi | 404706008 | C0361361 |
| SRT | C-B10A4 | Tc-99m tetrofosmin | 404707004 | C0361363 |

CID 3112 Attenuation Correction

Type: Extensible
Version: 20080927

Table CID 3112. Attenuation Correction

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 122726 | Algorithmic Attenuation Correction |
| DCM | 122727 | NM Transmission Attenuation Correction |
| DCM | 122728 | CT-based Attenuation Correction |
| DCM | 122729 | No Attenuation Correction |

CID 3113 Types of Perfusion Defects

Type: Extensible
Version: 20080927

Table CID 3113. Types of Perfusion Defects

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | F-3014D | Reversible myocardial perfusion defect | 251055003 | C0428859 |
| SRT | F-3014F | Fixed myocardial perfusion defect | 251057006 | C0428861 |
| SRT | F-3014E | Partially Reversible myocardial perfusion defect | 251056002 | C0428860 |
| DCM | 122748 | False Positive defect finding | | |

CID 3114 Study Quality

Type: Extensible
Version: 20080927

Table CID 3114. Study Quality

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 122740 | Excellent image quality |
| DCM | 122741 | Good image quality |
| DCM | 122742 | Poor image quality |
| DCM | 111235 | Unusable - Quality renders image unusable |

CID 3115 Stress Imaging Quality Issues

Type: Extensible
Version: 20080927

Table CID 3115. Stress Imaging Quality Issues

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| DCM | 111210 | Motion blur | | |
| DCM | 122743 | Body habitus attenuation | | |
| DCM | 122744 | Breast attenuation | | |
| DCM | 122745 | Diaphragmatic attenuation | | |
| SRT | F-04FD3 | Subdiaphragmatic uptake | 429382003 | C1997338 |

CID 3116 NM Extracardiac Findings

Type: Extensible
Version: 20080927

Table CID 3116. NM Extracardiac Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | F-04FA0 | Normal extracardiac uptake | 428552000 | C1997656 |
| SRT | F-04FB8 | Increased lung uptake | 428920008 | C1997679 |
| SRT | F-04FE3 | Abnormal extracardiac uptake | 429576000 | C1998057 |

CID 3117 Attenuation Correction Methods

Type: Extensible
Version: 20080927

Table CID 3117. Attenuation Correction Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------|
| DCM | 122720 | OSEM algorithm |
| DCM | 122721 | Chang method |

CID 3118 Level of Risk

Type: Extensible
Version: 20080927

Table CID 3118. Level of Risk

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | G-4044 | Normal risk | 427986001 | C1998074 |
| SRT | G-4041 | Low risk | 75976002 | C0332165 |
| SRT | G-4045 | Low to moderate risk | 429551001 | C1998307 |
| SRT | G-4042 | Moderate risk | 25594002 | C0332166 |
| SRT | G-4046 | Moderate to high risk | 429557002 | C1998133 |
| SRT | G-4043 | High risk | 15508007 | C0332167 |
| SRT | G-A648 | Uncertain risk | 64957009 | C0087130 |

CID 3119 LV Function

Type: Extensible
Version: 20080927

Table CID 3119. LV Function

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | G-A460 | Normal | 17621005 | C0205307 |
| SRT | F-300FA | Impaired left ventricular function | 275514001 | C0553982 |

CID 3120 Perfusion Findings

Type: Extensible
Version: 20080927

Table CID 3120. Perfusion Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | F-30172 | Myocardial perfusion normal | 301121007 | C0577811 |
| SRT | G-A466 | Equivocal | 42425007 | C0332241 |
| SRT | R-42037 | Abnormal | 263654008 | C0205161 |

CID 3121 Perfusion Morphology

Type: Extensible
Version: 20080927

Table CID 3121. Perfusion Morphology

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | D3-1070D | Myocardial ischemia | 414795007 | C0151744 |
| SRT | D3-15000 | Myocardial Infarction | 22298006 | C0027051 |
| SRT | D3-10711 | Mixed Ischemia and Infarction | 428196007 | C1997401 |

CID 3122 Ventricular Enlargement

Type: Extensible
Version: 20080927

Table CID 3122. Ventricular Enlargement

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|
| SRT | R-00343 | Normal size cardiac chamber | 373124004 | C1298811 |
| SRT | R-0032A | Mildly enlarged cardiac chamber | 373126002 | C1298813 |
| SRT | R-00331 | Moderately enlarged cardiac chamber | 373127006 | C1298814 |
| SRT | R-00316 | Markedly enlarged cardiac chamber | 373128001 | C1298815 |

CID 3200 Stress Test Procedure

Type: Extensible
Version: 20080927

Table CID 3200. Stress Test Procedure

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | P0-006E4 | Exercise stress test | 165079009 | C0015260 |
| SRT | P2-31107 | Pharmacologic stress test | 424064009 | C1827946 |
| SRT | P2-31011 | Pharmacologic and exercise stress test | 428813002 | C1998158 |
| SRT | P2-3110B | Paced stress test | 428685003 | C1997441 |

CID 3201 Indications for Stress Test

Type: Extensible
Version: 20080927

Table CID 3201. Indications for Stress Test

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | F-37000 | Chest Pain | 29857009 | C0008031 |
| SRT | R-413C5 | Pre-operative | 262068006 | C0445204 |
| SRT | D3-13040 | Coronary Artery Disease | 53741008 | C0010054 |
| SRT | D3-16000 | Heart failure | 84114007 | C0018801 |
| SRT | F-03C97 | Heart disease risk factors | 171224000 | C0420044 |
| SRT | F-201B3 | Dyspnea | 267036007 | C0013404 |
| SRT | R-00357 | Post PTCA | 373108000 | C1269832 |
| SRT | G-03A5 | History of CABG | 399261000 | C1275842 |
| SRT | F-00103 | Abnormal exercise tolerance test | 165084003 | C0149612 |
| SRT | F-38002 | Abnormal ECG | 102594003 | C0522055 |
| SRT | D3-30000 | Arrhythmia | 44808001 | C0264886 |
| SRT | D3-13012 | Angina pectoris | 194828000 | C0002962 |
| SRT | D3-02000 | Hypertension | 38341003 | C0020538 |
| SRT | F-37150 | Palpitations | 80313002 | C0030252 |
| SRT | D3-31290 | Supraventricular tachycardia | 6456007 | C0039240 |
| SRT | D3-00006 | Syncope | 271594007 | C0039070 |
| SRT | G-03AA | History of Myocardial Infarction | 399211009 | C1275835 |
| SRT | D3-33120 | Left bundle branch block | 63467002 | C0023211 |
| SRT | D3-10800 | Valvular heart disease | 368009 | C0018824 |
| SRT | P7-00044 | Occupational requirement | 429060002 | C1997084 |

CID 3202 Chest Pain

Type: Extensible
Version: 20080927

Table CID 3202. Chest Pain

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | D3-13020 | Stable Angina | 233819005 | C0340288 |
| SRT | D3-12700 | Unstable Angina | 4557003 | C0002965 |
| SRT | R-0038F | Atypical Angina | 371807002 | C0741026 |
| SRT | F-37015 | Noncardiac Chest Pain | 274668005 | C0476281 |
| SRT | F-A265A | Chest pain not present | 161971004 | C0423635 |
| SRT | D3-13037 | Typical Angina | 429559004 | C1998435 |
| DCM | 122799 | Anginal Equivalent | | |

CID 3203 Exerciser Device

Type: Extensible
Version: 20080927

Table CID 3203. Exerciser Device

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | A-17230 | Bicycle ergometer | 739006 | C0180749 |
| SRT | A-17222 | Treadmill | 1211003 | C0184069 |
| SRT | A-1002A | Arm ergometer | 429560009 | C1996977 |

CID 3204 Stress Agents

Type: Extensible
Version: 20080927

Table CID 3204. Stress Agents

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Trade Name (Informative) |
|--------------------------|------------|-------------------------------|----------------------|------------------------|--------------------------|
| SRT | C-81590 | Dipyridamole | 66859009 | C0012582 | Persantine |
| SRT | C-68030 | Dobutamine | 26523005 | C0012963 | |
| SRT | C-80349 | Adenosine | 108502004 | C0001443 | |
| SRT | C-67770 | Atropine | 73949004 | C0004259 | |
| SRT | C-80012 | Adenosine A2 receptor agonist | 432062000 | C1998062 | Regadenoson |

CID 3205 Indications for Pharmacological Stress Test

Type: Extensible
Version: 20160314

Table CID 3205. Indications for Pharmacological Stress Test

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | D3-33120 | Left bundle branch block | 63467002 | C0023211 |
| SRT | R-00728 | Patient has pacemaker | 441509002 | C2712998 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | DA-26000 | Paralytic syndrome | 29426003 | C0270788 |
| SRT | F-A4580 | Ataxia or incoordination | 20262006 | C0004134 |
| SRT | D3-8005B | Peripheral vascular disease | 400047006 | C0085096 |
| SRT | D2-50000 | Pulmonary disease | 19829001 | C0024115 |
| SRT | F-18002 | Gait problem | 22325002 | C0575081 |
| SRT | F-A0846 | Transient limb paralysis | 274662006 | C0159034 |
| SRT | F-01380 | Asthenia (debility) | 13791008 | C0004093 |
| SRT | F-029F7 | Cachexia | 238108007 | C0006625 |
| SRT | DD-13000 | Fracture of lower limb | 46866001 | C1542178 |
| SRT | DD-33500 | Open wound of lower limb | 26947005 | C0178323 |
| SRT | G-02BD | Lower limb amputation | 161622006 | C0455616 |
| SRT | G-0202 | Request by Physician | 103321005 | C0686901 |
| SRT | S-20570 | Dependence on enabling machine or device | 105501005 | C0524375 |
| SRT | G-044D | Recent Myocardial infarction | 428752002 | C1998297 |
| SRT | F-33019 | Cannot reach target heart rate | 429733000 | C1997932 |
| DCM | 122764 | Patient weight exceeds equipment limit | | |

CID 3206 Non-invasive Cardiac Imaging Procedures

Type: Extensible
Version: 20080927

Table CID 3206. Non-invasive Cardiac Imaging Procedures

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | P5-D30F8 | Nuclear medicine cardiovascular study | 108294005 | C0581579 |
| SRT | P5-D3304 | Cardiac blood pool imaging (nuclear) | 35621002 | C0203725 |
| SRT | P5-0A006 | PET heart study | 241439007 | C0412498 |
| SRT | P5-0A100 | SPECT | 105371005 | C0040399 |
| SRT | P5-B3000 | Echocardiography | 40701008 | C0013516 |
| SRT | P5-09011 | Cardiac MRI | 241620005 | C0412692 |

CID 3207 Stress Test Procedure Phases

Type: Extensible
Version: 20081031

Table CID 3207. Stress Test Procedure Phases

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | F-01604 | Resting State | 128975004 | C0679218 |
| SRT | F-05019 | Cardiac stress state | 432655005 | C2317276 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | F-05028 | Peak cardiac stress state | 434161005 | C2316487 |
| SRT | F-05018 | Cardiac stress recovery state | 432554001 | C2316793 |
| SRT | F-25040 | Hyperventilation | 68978004 | C0020578 |

CID 3208 Summary Codes Exercise ECG

Type: Extensible
Version: 20080927

Table CID 3208. Summary Codes Exercise ECG

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | F-00101 | Exercise ECG normal | 165082004 | C0231162 |
| SRT | F-00103 | Exercise ECG abnormal | 165084003 | C0149612 |
| SRT | F-201B6 | Exercise ECG equivocal | 370367002 | C1299965 |
| SRT | R-4135B | Not performed | 262008008 | C0445106 |

CID 3209 Summary Codes Stress Imaging

Type: Extensible
Version: 20080927

Table CID 3209. Summary Codes Stress Imaging

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | F-04AB2 | Imaging result normal | 408573005 | C1319347 |
| SRT | F-04AB3 | Imaging result abnormal | 408574004 | C1319348 |
| SRT | F-04A13 | Imaging result equivocal | 408379005 | C1319511 |
| SRT | R-4135B | Not performed | 262008008 | C0445106 |

CID 3210 Speed of Response

Type: Extensible
Version: 20080927

Table CID 3210. Speed of Response

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A460 | normal | 17621005 | C0205307 |
| SRT | R-40AA8 | accentuated | 428691001 | C1997416 |
| SRT | R-40AA7 | blunted | 428247006 | C1997138 |

CID 3211 BP Response

Type: Extensible
Version: 20080927

Table CID 3211. BP Response

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A460 | normal | 17621005 | C0205307 |
| SRT | D3-04000 | Hypotensive | 45007003 | C0020649 |
| SRT | D3-02000 | Hypertensive | 38341003 | C0020538 |
| SRT | R-40AA7 | blunted | 428247006 | C1997138 |

CID 3212 Treadmill Speed

Type: Extensible
Version: 20080927

Table CID 3212. Treadmill Speed

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| UCUM | km/h | km/h |
| UCUM | [mi_i]/h | mph |

CID 3213 Stress Hemodynamic Findings

Type: Extensible
Version: 20080927

Table CID 3213. Stress Hemodynamic Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | D3-0400A | Exertional hypotension | 429561008 | C1998376 |
| SRT | D3-0200B | Exertional hypertension | 429198000 | C1997276 |
| SRT | F-380B2 | Chronotropic incompetence | 427989008 | C1997984 |

CID 3215 Perfusion Finding Method

Type: Extensible
Version: 20080927

Table CID 3215. Perfusion Finding Method

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | R-41D8B | ECG analysis | 258181008 | C0442977 |
| SRT | P3-41910 | Image analysis | 24587005 | C0200765 |

CID 3217 Comparison Finding

Type: Extensible
Version: 20080927

Table CID 3217. Comparison Finding

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------|
| DCM | 122775 | Agreement with prior findings |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------------|
| DCM | 122776 | Disagreement with prior findings |

CID 3220 Stress Symptoms

Type: Extensible
Version: 20160314

Table CID 3220. Stress Symptoms

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|-------------------------------|------------|------------------|----------------------|------------------------|
| SRT | F-201B3 | Dyspnea | 267036007 | C0013404 |
| SRT | F-18010 | Claudication | 16973004 | C1456822 |
| SRT | D3-00006 | Syncope | 271594007 | C0039070 |
| SRT | D0-30017 | Flushing | 238810007 | C0016382 |
| SRT | F-04E95 | Nausea | 422587007 | C0027497 |
| SRT | F-06017 | Dizziness | 404640003 | C0012833 |
| SRT | F-01360 | Fatigue | 84229001 | C0015672 |
| SRT | F-37000 | Chest pain | 29857009 | C0008031 |
| SRT | F-37006 | Chest discomfort | 279084009 | C0235710 |
| Include CID 3202 "Chest Pain" | | | | |

CID 3221 Stress Test Termination Reasons

Type: Extensible
Version: 20080927

Table CID 3221. Stress Test Termination Reasons

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | F-37000 | Chest pain | 29857009 | C0008031 |
| SRT | F-38002 | Abnormal ECG | 102594003 | C0522055 |
| SRT | F-01360 | Fatigue | 84229001 | C0015672 |
| SRT | F-201B3 | Dyspnea | 267036007 | C0013404 |
| SRT | R-214DD | Patient Refused exercise test | 408551003 | C1319325 |
| SRT | F-021E1 | Target Heart Rate Achieved | 258153002 | C0432605 |
| SRT | D3-04001 | Hypotensive episode | 67763001 | C0520541 |
| SRT | D3-02004 | Hypertensive episode | 62275004 | C0520539 |
| SRT | D3-30000 | Arrhythmia | 44808001 | C0264886 |
| SRT | F-18010 | Claudication | 16973004 | C1456822 |
| SRT | R-4038D | End of Protocol | 255253007 | C0444496 |
| SRT | D3-00006 | Syncope | 271594007 | C0039070 |

CID 3227 QTc Measurements

This Context Group include both global and per lead corrected QT measurements specified in the ISO/IEEE 11073-10102 MDC nomenclature. Note that the MDC code for the per lead measurement is a base code for post-coordination with separately encoded lead

identifiers. MDC also defines pre-coordinated codes that include both the measurement and the lead, which may be used in the same context as this Context Group; see the ISO/IEEE Standard.

While this Context Group includes distinct codes for the various QT correction algorithms, Templates using this Context Group may allow post-coordination using the QTc algorithm codes of CID 3678 "QT Correction Algorithms".

Note

Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10102 available through <http://standards.ieee.org/>.

Type: Extensible
Version: 20110330

Table CID 3227. QTc Measurements

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|---------------------------------------|--|
| MDC | 2:15876 | QTc interval global | MDC_ECG_TIME_PD_QTC |
| MDC | 2: 33792 | QTc interval per lead | MDC_ECG_TIME_PD_QTC_<lead> |
| MDC | 2:15880 | QTc global using Bazett formula | MDC_ECG_TIME_PD_QTC_BAZETT |
| MDC | 2:15880 | QTc global using Framingham formula | MDC_ECG_TIME_PD_QTC_FRAMINGHAM |
| MDC | 2:15892 | QTc global using Fredericia formula | MDC_ECG_TIME_PD_QTC_FREDERICA |
| MDC | 2:15892 | QTc global using Hodges formula | MDC_ECG_TIME_PD_QTC_HODGES |
| MDC | 2:34048 | QTc per lead using Bazett formula | MDC_ECG_TIME_PD_QTcB_<lead> |
| MDC | 2:34304 | QTc per lead using Fredericia formula | MDC_ECG_TIME_PD_QTcF_<lead> |

CID 3228 ECG Timing Measurements

This Context Group include both global and per lead ECG measurements specified in the ISO/IEEE 11073-10102 MDC nomenclature. Note that the MDC codes for "per lead" measurements are base codes for post-coordination with separately encoded lead identifiers. MDC also defines pre-coordinated codes that include both the measurement and the lead, which may be used in the same context as this Context Group; see the ISO/IEEE Standard.

Note

Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10102 available through <http://standards.ieee.org/>.

Type: Extensible
Version: 20080927

Table CID 3228. ECG Timing Measurements

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|----------------------|--|
| MDC | 2:15872 | PR interval global | MDC_ECG_TIME_PD_PR |
| MDC | 2:16160 | QT interval global | MDC_ECG_TIME_PD_QT |
| MDC | 2:16156 | QRS duration global | MDC_ECG_TIME_PD_QRS |
| MDC | 2:16184 | P duration global | MDC_ECG_TIME_PD_P |
| MDC | 2:16140 | PP interval global | MDC_ECG_TIME_PD_PP |
| MDC | 2:16168 | RR interval global | MDC_ECG_TIME_PD_RR |
| MDC | 2:7168 | PR interval per lead | MDC_ECG_TIME_PD_PR_<lead> |
| MDC | 2:8192 | QT interval per lead | MDC_ECG_TIME_PD_QT_<lead> |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|-----------------------|--|
| MDC | 2:7936 | QRS duration per lead | MDC_ECG_TIME_PD_QRS_<lead> |
| MDC | 2:6656 | P duration per lead | MDC_ECG_TIME_PD_P_<lead> |
| MDC | 2:32768 | PP interval per lead | MDC_ECG_TIME_PD_PP_<lead> |
| MDC | 2:33024 | RR interval per lead | MDC_ECG_TIME_PD_RR_<lead> |

CID 3229 ECG Axis Measurements

This Context Group comprises the ECG axis measurements of ISO/IEEE 11073-10102. The terms included in the table below may not constitute the complete list; see the ISO/IEEE Standard.

Note

Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10102 available through <http://standards.ieee.org/>.

Type: Extensible
Version: 20080927

Table CID 3229. ECG Axis Measurements

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|--------------|--|
| MDC | 2:16132 | QRS axis | MDC_ECG_ANGLE_QRS_FRONT |
| MDC | 2:16128 | P Axis | MDC_ECG_ANGLE_P_FRONT |
| MDC | 2:16136 | T axis | MDC_ECG_ANGLE_T_FRONT |

CID 3230 ECG Findings

Note

MDC Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10102 available through <http://standards.ieee.org/>.

Type: Extensible
Version: 20080927

Table CID 3230. ECG Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|--|
| SRT | F-000B7 | Normal | 164854000 | C0522054 | MDC_ECG_BEAT_NORMAL |
| SRT | D3-30A03 | Atrial premature contraction | 284470004 | C0033036 | MDC_ECG_BEAT_ATR_P_C |
| SRT | D3-31740 | Ventricular premature contraction | 17338001 | C0151636 | MDC_ECG_BEAT_V_P_C |
| SRT | D3-31520 | Atrial Fibrillation | 49436004 | C0004238 | MDC_ECG_RHY_ATR_FIB |
| SRT | D3-31290 | Supraventricular Tachycardia | 6456007 | C0039240 | MDC_ECG_RHY_SV_TACHY |
| SRT | D3-31710 | Non-sustained ventricular tachycardia | 66657009 | C0030591 | MDC_ECG_RHY_V_TACHY_PAROX |
| SRT | D3-31700 | Ventricular tachycardia | 25569003 | C0042514 | MDC_ECG_RHY_V_TACHY |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|---|----------------------|------------------------|--|
| SRT | D3-31720 | Ventricular fibrillation | 71908006 | C0042510 | MDC_ECG_RHY_V_FIB |
| SRT | D3-33000 | Intraventricular conduction disturbance | 4554005 | C0264909 | MDC_ECG_BEAT_BLK_IVCD |
| SRT | D3-33120 | Left bundle branch block | 63467002 | C0023211 | MDC_ECG_BEAT_LBB_BLK_COMP |
| SRT | D3-33110 | Right bundle branch block | 59118001 | C0085615 | MDC_ECG_BEAT_RBB_BLK_COMP |
| SRT | D3-33122 | Incomplete Left bundle branch block | 251120003 | C0281878 | MDC_ECG_BEAT_LBB_BLK_INCOMP |
| SRT | D3-33112 | Incomplete Right bundle branch block | 251124007 | C0262525 | MDC_ECG_BEAT_RBB_BLK_INCOMP |
| SRT | D3-33200 | Bifascicular Block | 74021003 | C0264914 | MDC_ECG_BEAT_BLK_BIFASC |
| SRT | D3-33140 | Left anterior fascicular block | 37760005 | C0264912 | MDC_ECG_BEAT_BLK_ANT_L_HEMI |
| SRT | D3-33150 | Left posterior fascicular block | 62026008 | C0264913 | MDC_ECG_BEAT_BLK_POS_L_HEMI |
| SRT | D3-30001 | First degree Atrioventricular block | 270492004 | C0085614 | MDC_ECG_RHY_AV_HEART_BLK_DEG_1 |
| SRT | R-F81AE | Second degree Atrioventricular block | 195042002 | C0264906 | MDC_ECG_RHY_AV_HEART_BLK_DEG_2 |
| SRT | D3-32102 | Third degree Atrioventricular block | 27885002 | C0151517 | MDC_ECG_RHY_AV_HEART_BLK_DEG_3 |
| SRT | D3-31351 | Ventricular pre-excitation | 195060002 | C0559106 | MDC_ECG_BEAT_PREX |
| SRT | F-38278 | ST depression | 26141007 | C0520887 | |
| SRT | F-38277 | ST elevation | 76388001 | C0520886 | |
| SRT | F-380B3 | Early repolarization | 428417006 | C1997354 | |
| SRT | F-38794 | Nonspecific ST-T abnormality | 428750005 | C1997940 | |
| SRT | F-38793 | Secondary ST-T abnormality | 428549008 | C1998291 | |

CID 3231 ST Segment Findings

Type: Extensible
Version: 20080927

Table CID 3231. ST Segment Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | F-000C3 | ST Interval Normal | 164929001 | C0438164 |
| DCM | 122750 | Non-diagnostic - low heart rate | | |
| DCM | 122751 | Non-diagnostic - resting ST abnormalities | | |
| DCM | 122752 | Non-diagnostic - ventricular pacing or LBBB | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | G-A205 | Weakly positive | 260408008 | C0442730 |
| SRT | G-A200 | Positive | 10828004 | C1446409 |
| DCM | 122755 | Strongly positive | | |
| DCM | 122756 | Strongly positive - ST elevation | | |

CID 3232 ST Segment Location

Type: Extensible
Version: 20091021

Table CID 3232. ST Segment Location

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | T-3260A | Left ventricle anterior segment | 284355001 | C0562222 |
| SRT | T-3260C | Left ventricle inferior segment | 284357009 | C0562224 |
| SRT | T-3260D | Left ventricle lateral segment | 284358004 | C0562225 |
| SRT | T-3260B | Left ventricle septal segment | 284356000 | C0562223 |
| SRT | T-32602 | Left ventricle apical segment | 128564006 | C0580781 |

CID 3233 ST Segment Morphology

Type: Extensible
Version: 20080927

Table CID 3233. ST Segment Morphology

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| DCM | 122757 | ST Depression - Horizontal | | |
| DCM | 122758 | ST Depression - Upsloping | | |
| DCM | 122759 | ST Depression - Downsloping | | |
| SRT | F-38277 | ST Elevation | 76388001 | C0520886 |
| SRT | F-38278 | ST Depression | 26141007 | C0520887 |

CID 3234 Ectopic Beat Morphology

Type: Extensible
Version: 20080927

Table CID 3234. Ectopic Beat Morphology

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | D3-31700 | Ventricular tachycardia | 25569003 | C0042514 |
| SRT | F-33750 | Ventricular bigeminy | 11157007 | C0262662 |
| SRT | D3-31744 | Multifocal PVCs | 10626002 | C0264903 |
| SRT | D3-31742 | Unifocal PVCs | 27337007 | C0264902 |
| SRT | D3-31704 | Ventricular tachycardia, polymorphic | 251159007 | C0344432 |

CID 3235 Perfusion Comparison Findings

Type: Extensible
Version: 20080927

Table CID 3235. Perfusion Comparison Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | R-4075C | No change | 260388006 | C0442739 |
| SRT | R-215D9 | New ischemia | 428927006 | C1997666 |
| SRT | R-215DE | Less ischemia | 429232006 | C1998148 |
| SRT | R-215D5 | Resolution of ischemia | 428824000 | C1996952 |
| SRT | R-215E1 | More ischemia | 429477006 | C1997854 |
| SRT | R-215E0 | New infarction | 429391004 | C1997076 |

CID 3236 Tolerance Comparison Findings

Type: Extensible
Version: 20080827

Table CID 3236. Tolerance Comparison Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------|----------------------|------------------------|
| SRT | R-4075C | No change | 260388006 | C0442739 |
| SRT | F-00454 | Decreased tolerance | 102460003 | C0151955 |
| SRT | F-00453 | Increased tolerance | 102459008 | C0151956 |

CID 3237 Wall Motion Comparison Findings

Type: Extensible
Version: 20080927

Table CID 3237. Wall Motion Comparison Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | R-4075C | No change | 260388006 | C0442739 |
| SRT | R-215DC | New wall motion abnormality | 429058004 | C1997943 |
| SRT | R-215D6 | Improvement of wall motion | 428825004 | C1997106 |

CID 3238 Stress Scoring Scales

Type: Extensible
Version: 20080927

Table CID 3238. Stress Scoring Scales

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | G-E002 | Duke treadmill score | 304915008 | C0582804 |
| DCM | 122770 | Ratio of achieved to predicted maximal oxygen consumption | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| DCM | 122771 | Ratio of achieved to predicted functional capacity | | |
| DCM | 122772 | Aerobic index | | |
| DCM | 122773 | ST/HR Index | | |

CID 3239 Perceived Exertion Scales

Type: Extensible
Version: 20080927

Table CID 3239. Perceived Exertion Scales

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------|
| DCM | 122734 | Borg RPE Scale |
| DCM | 122735 | Borg CR10 Scale |

CID 3240 Electrophysiology Measurement Functions and Techniques

Type: Extensible
Version: 20020904

Table CID 3240. Electrophysiology Measurement Functions and Techniques

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 109006 | Differential signal |
| DCM | 109007 | His bundle electrogram |
| DCM | 109008 | Monopole signal |
| DCM | 109009 | Pacing (electrical) stimulus, voltage |
| DCM | 109010 | Radio frequency ablation, power |
| DCM | 109011 | Voltage measurement by basket catheter |
| DCM | 109012 | Voltage measurement by mapping catheter |
| DCM | 109013 | Voltage measurement |

CID 3241 Hemodynamic Measurement Techniques

Type: Extensible
Version: 20160314

Table CID 3241. Hemodynamic Measurement Techniques

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | PA-50038 | Averaged hemodynamic measurement method | 128580001 | C1266842 |
| SRT | PA-50035 | Composite hemodynamic measurement method | 128577002 | C1266839 |
| SRT | PA-50034 | Computed hemodynamic measurement method | 128576006 | C1266838 |
| SRT | PA-5003B | Conductance catheter method | 133910006 | C1297901 |
| SRT | PA-5003C | Doppler catheter method | 133911005 | C1297902 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | PA-50031 | Dual catheter method | 128573003 | C1266836 |
| SRT | PA-50039 | Fluid filled catheter method | 128581002 | C1266843 |
| SRT | PA-5003D | Fiberoptic catheter method | 133912003 | C1297903 |
| SRT | PA-5003E | Hall catheter method | 133913008 | C1297904 |
| SRT | PA-50033 | Pullback method | 128575005 | C1276411 |
| SRT | G-DB26 | Pulmonary capillary wedge method | 128448001 | C1264741 |
| SRT | PA-50036 | Static catheter method | 128578007 | C1266840 |
| SRT | PA-5003F | Thermistor catheter method | 133914002 | C1297905 |
| SRT | PA-5003A | Tip manometer method | 128582009 | C1266844 |
| SRT | PA-50037 | Wedge method | 128579004 | C1266841 |

CID 3250 Catheterization Procedure Phase

Type: Extensible
Version: 20160314

Table CID 3250. Catheterization Procedure Phase

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | G-7299 | Cardiac catheterization bailout phase | 128961006 | C1292438 |
| SRT | G-7293 | Cardiac catheterization baseline phase | 128955008 | C1292432 |
| SRT | G-7294 | Cardiac catheterization image acquisition phase | 128956009 | C1292433 |
| SRT | G-7295 | Cardiac catheterization intervention phase | 128957000 | C1292434 |
| SRT | G-729B | Cardiac catheterization post contrast phase | 129083002 | C1292440 |
| SRT | G-7298 | Cardiac catheterization post-intervention phase | 128960007 | C1292437 |
| SRT | G-7296 | Cardiac catheterization pre-intervention phase | 128958005 | C1292435 |
| SRT | R-002E4 | Cardiac catheterization test/challenge phase | 373105002 | C1300063 |
| SRT | G-7297 | Cardiac catheterization therapy phase | 128959002 | C1292436 |
| SRT | P1-3160A | Catheterization of both left and right heart with graft | 128952006 | C1293383 |
| SRT | P1-3160B | Catheterization of both left and right heart without graft | 128953001 | C1293384 |
| SRT | P1-31604 | Catheterization of left heart | 67629009 | C0189897 |
| SRT | P1-31602 | Catheterization of right heart | 40403005 | C0189896 |
| SRT | P1-31612 | Transseptal catheterization | 67338003 | C0189901 |
| SRT | P2-71317 | Drug Infusion Challenge | 133882006 | C1297891 |
| SRT | P2-71310 | Exercise challenge | 128967005 | C1293901 |
| SRT | F-01604 | Resting State | 128975004 | C0679218 |

CID 3254 Electrophysiology Procedure Phase

Type: Extensible
Version: 20020904

Table CID 3254. Electrophysiology Procedure Phase

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | G-729D | Atrial Effective Refractory Period, evaluation of | 129087001 | C0428938 |
| SRT | G-7304 | Carotid Sinus Massage procedure phase | 129090007 | C1292445 |
| SRT | G-7406 | Electrophysiology Mapping phase | 129092004 | C1292447 |
| SRT | G-729A | Electrophysiology procedure baseline phase | 129082007 | C1292439 |
| SRT | G-7408 | Post-ablation phase | 129093009 | C1292448 |
| SRT | G-7305 | Post-defibrillation procedure phase | 129091006 | C1292446 |
| SRT | G-729F | Radiofrequency Ablation procedure phase | 129089003 | C1292442 |
| SRT | G-729C | Sinus Node Recovery Time, evaluation of | 129086005 | C1292441 |
| SRT | G-729E | Ventricular Effective Refractory Period, evaluation of | 129088006 | C0428940 |

CID 3261 Stress Protocols

Type: Extensible
Version: 20081027

Table CID 3261. Stress Protocols

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | P2-7131C | Balke protocol | 129097005 | C0442712 |
| SRT | P2-7131A | Bruce protocol | 129095002 | C0442713 |
| SRT | P2-7131D | Ellestad protocol | 129098000 | C1276407 |
| SRT | P2-7131B | Modified Bruce protocol | 129096001 | C0442714 |
| SRT | P2-713A1 | Modified Naughton protocol | 129102008 | C1293907 |
| SRT | P2-713A0 | Naughton protocol | 129101001 | C0442715 |
| SRT | P2-7131F | Pepper protocol | 129100000 | C1276409 |
| SRT | P2-7131E | Ramp protocol | 129099008 | C1276408 |
| SRT | P2-31010 | Exercise stress ECG test | 46136006 | C1304755 |
| SRT | P2-31102 | Stress test using Bicycle Ergometer | 26046004 | C0430459 |
| SRT | P2-31107 | Pharmacologic Stress protocol | 424064009 | C1827946 |
| SRT | P2-3110A | Dipyridamole Stress protocol | 422685009 | C1827789 |
| SRT | P2-31109 | Adenosine Stress protocol | 424444005 | C1827363 |
| SRT | P2-31108 | Dobutamine Stress protocol | 424225000 | C1828348 |
| SRT | P2-31011 | Pharmacologic and exercise stress test | 428813002 | C1998158 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | P2-3110B | Stress test using cardiac pacing | 428685003 | C1997441 |

CID 3262 ECG Patient State Values

Type: Extensible
Version: 20020904

Table CID 3262. ECG Patient State Values

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | F-01602 | Baseline state | 128974000 | C1290922 |
| SRT | F-01606 | Exercise state | 128976003 | C1290923 |
| SRT | F-01608 | Post-exercise state | 128977007 | C1290924 |
| SRT | F-01604 | Resting state | 128975004 | C0679218 |
| SRT | F-10340 | Supine body position | 40199007 | C0038846 |

CID 3263 Electrode Placement Values

This Context Group comprises the ECG lead placement system identifiers of ISO/IEEE 11073-10102. The terms included in the table below may not constitute the complete list; see the ISO/IEEE Standard.

Note

Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10102 available through <http://standards.ieee.org/>.

Type: Extensible
Version: 20080927

Table CID 3263. Electrode Placement Values

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|---|--|
| MDC | 10:11264 | Unspecified 12-lead system | MDC_ECG_LDSYS_12LD_UNSPECIFIED |
| MDC | 10:11265 | Standard 12-lead positions, electrodes placed individually | MDC_ECG_LDSYS_12LD_STD |
| MDC | 10:11266 | Mason-Likar lead positions, electrodes placed individually | MDC_ECG_LDSYS_12LD_MASON_LIKAR |
| MDC | 10:11267 | Mason-Likar lead positions, V1-V6 in electrode pad | MDC_ECG_LDSYS_12LD_VPAD |
| MDC | 10:11268 | 12-lead electrode pad | MDC_ECG_LDSYS_12LD_PAD |
| MDC | 10:11269 | 12-lead derived from Frank XYZ leads | MDC_ECG_LDSYS_12LD_FROM_FRANK |
| MDC | 10:11270 | 12-lead derived from non-standard leads | MDC_ECG_LDSYS_12LD_NON_STANDARD |
| MDC | 10:11271 | 12-lead for bicycle exercise testing, limb leads on back of patient | MDC_ECG_LDSYS_12LD_BICYCLE |
| MDC | 10:11272 | Standard 12-lead positions one intercostal space higher | MDC_ECG_LDSYS_12LD_RAISED_INTERCOSTAL |
| MDC | 10:11273 | Unspecified XYZ lead system | MDC_ECG_LDSYS_XYZ_UNSPECIFIED |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|---|--|
| MDC | 10:11274 | Frank XYZ lead system | MDC_ECG_LDSYS_XYZ_FRANK |
| MDC | 10:11275 | McFee-Parungao XYZ lead system | MDC_ECG_LDSYS_XYZ_MCFEE_PARUNAGO |
| MDC | 10:11276 | Cube XYZ lead system | MDC_ECG_LDSYS_XYZ_CUBE |
| MDC | 10:11277 | Bipolar uncorrected XYZ lead system | MDC_ECG_LDSYS_XYZ_BIPOLAR |
| MDC | 10:11278 | Pseudo-orthogonal XYZ lead system | MDC_ECG_LDSYS_XYZ_PSEUDO_ORTH |
| MDC | 10:11279 | XYZ leads derived from standard 12-lead | MDC_ECG_LDSYS_XYZ_FROM_12LD |
| MDC | 10:11280 | NEHB lead system | MDC_ECG_LDSYS_3LD_NEHB |
| MDC | 10:11281 | 3-lead system, CC5-CM5-ML | MDC_ECG_LDSYS_3LD_CC5_CM5_ML |
| MDC | 10:11282 | 3-lead system, CC5-CM5-CH5 | MDC_ECG_LDSYS_3LD_CM5_CC5_CH5 |
| MDC | 10:11283 | 12-lead from Frank leads XYZ leads by Dower transformation | MDC_ECG_LDSYS_12LD_FROM_DOWER |
| MDC | 10:11284 | 12-lead from EASI leads (ES, AS, AI) by Dower/EASI transformation | MDC_ECG_LDSYS_12LD_FROM_EASI |
| MDC | 10:11285 | 12-lead from Limb Leads (I, II) and one or more V leads | MDC_ECG_LDSYS_12LD_FROM_LIMB |
| MDC | 10:11286 | Standard 12-lead and XYZ | MDC_ECG_LDSYS_12LD_STD_AND_XYZ |
| MDC | 10:11287 | Standard 12-lead and NEHB | MDC_ECG_LDSYS_12LD_STD_AND_NEHB |
| MDC | 10:11288 | Standard 12-lead and CC5-CM5-ML | MDC_ECG_LDSYS_12LD_STD_AND_CC5_CM5_ML |
| MDC | 10:11289 | Standard 12-lead and CM5-CC5-CH5 | MDC_ECG_LDSYS_12LD_STD_AND_CM5_CC5_CH5 |
| MDC | 10:11290 | Standard 12-lead with extra leads to the right and/or left sides | MDC_ECG_LDSYS_12LD_STD_EXTD |
| MDC | 10:11291 | Standard 12-lead extended to the right by V5R, V4R, V3R | MDC_ECG_LDSYS_12LD_STD_EXTD_RIGHT |
| MDC | 10:11292 | Standard 12-lead extended to the left by V7, V8, V9 | MDC_ECG_LDSYS_12LD_STD_EXTD_LEFT |

Note

A prior version of this context group used codes from the SCP-ECG vocabulary.

CID 3264 XYZ Electrode Placement Values (Retired)

This Context Group is retired. See PS3.16-2009.

CID 3271 Hemodynamic Physiological Challenges

Type: Extensible
Version: 20100625

Table CID 3271. Hemodynamic Physiological Challenges

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------|----------------------|------------------------|
| SRT | P2-71317 | Drug infusion | 133882006 | C1297891 |
| SRT | P2-71310 | Exercise challenge | 128967005 | C1293901 |
| SRT | P2-71306 | Handgrip | 128965002 | C1293900 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | P2-71302 | Head up | 128963009 | C1293898 |
| SRT | P2-71314 | Held inspiration | 128969008 | C1293904 |
| SRT | P2-71316 | Held ventilation | 128970009 | C1293905 |
| SRT | P2-71304 | Leg up | 128964003 | C1293899 |
| SRT | P2-71308 | Negative lower body pressure | 128966001 | C0024047 |
| SRT | P2-35000 | Pacing | 18590009 | C0199640 |
| SRT | P2-71318 | Post volume challenge | 128971008 | C1293906 |
| SRT | P2-71312 | Vagal stimulation | 128968000 | C1293903 |
| SRT | R-40928 | Valsalva maneuver | 261039008 | C0042293 |

CID 3335 ECG Annotations

This Context Group comprises the nomenclature of ISO/IEEE 11073-10102, limited to the hierarchies under Reference IDs MDC_ECG_WAVEC, MDC_ECG_WAVEP, MDC_ECG_BEAT, and MDC_ECG_NOISE.

The base terms from those hierarchies are included in the table below for reference. Note that these base terms are pre-coordinated with a variety of concept discriminators, and the code values for those pre-coordinated terms are arithmetically derived from the code values of the base terms. For the complete current list of terms and discriminator values, see the ISO/IEEE Standard. All pre-coordinated terms (annotation plus discriminators) within the identified hierarchies are part of this Context Group.

Note

1. This Context Group is used in the Concept Name Code Sequence of the Waveform Annotation Sequence (0040,B020). See PS3.3.
2. A prior version of this context group used codes from the SCP-ECG coding system.
3. Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10102 available through <http://standards.ieee.org/>.

Type: Extensible
Version: 20130613

Table CID 3335. ECG Annotations

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|---------------------------------------|--|
| MDC | 10:256 | P wave | MDC_ECG_WAVC_PWAVE |
| MDC | 10:320 | P' wave (second deflection in P wave) | MDC_ECG_WAVC_PPWAVE |
| MDC | 10:384 | P'' wave (third deflection in P wave) | MDC_ECG_WAVC_PPPWAVE |
| MDC | 10:448 | Q wave | MDC_ECG_WAVC_QWAVE |
| MDC | 10:512 | QS wave | MDC_ECG_WAVC_QSWAVE |
| MDC | 10:576 | R wave | MDC_ECG_WAVC_RWAVE |
| MDC | 10:640 | R' wave (second deflection in R Wave) | MDC_ECG_WAVC_RRWAVE |
| MDC | 10:704 | R'' wave (third deflection in R Wave) | MDC_ECG_WAVC_RRRWAVE |
| MDC | 10:768 | Notch | MDC_ECG_WAVC_NOTCH |
| MDC | 10:832 | S wave | MDC_ECG_WAVC_SWAVE |
| MDC | 10:896 | S' wave (second deflection in S Wave) | MDC_ECG_WAVC_SSWAVE |
| MDC | 10:960 | S'' wave (third deflection in S Wave) | MDC_ECG_WAVC_SSSWAVE |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|---|--|
| MDC | 10:1024 | T wave | MDC_ECG_WAVC_TWAVE |
| MDC | 10:1088 | T' wave (second deflection in T Wave) | MDC_ECG_WAVC_TTWAVE |
| MDC | 10:1152 | U wave | MDC_ECG_WAVC_UWAVE |
| MDC | 10:1216 | Delta wave | MDC_ECG_WAVC_DELTA |
| MDC | 10:1280 | Isoelectric region from global QRS onset to specific lead onset | MDC_ECG_WAVC_IWAVE |
| MDC | 10:1344 | Isoelectric region from specific lead QRS Offset to global offset | MDC_ECG_WAVC_KWAVE |
| MDC | 10:1408 | Osborne wave | MDC_ECG_WAVC_JWAVE |
| MDC | 10:1472 | Entire Beat (Pon to Toff, excluding U) | MDC_ECG_WAVC_PQRSTWAVE |
| MDC | 10:1536 | Entire Beat (Qon to Toff, excluding P and U) | MDC_ECG_WAVC_QRSTWAVE |
| MDC | 10:1600 | Entire QRS (excluding P, T and U) | MDC_ECG_WAVC_QRSWAVE |
| MDC | 10:1664 | TU fused wave | MDC_ECG_WAVC_TUWAVE |
| MDC | 10:1728 | Ventricular flutter wave | MDC_ECG_WAVC_VFLWAVE |
| MDC | 10:1792 | Atrial flutter wave | MDC_ECG_WAVC_AFLWAVE |
| MDC | 10:1856 | Isoelectric point or segment | MDC_ECG_WAVC_ISO |
| MDC | 10:1920 | PR Segment | MDC_ECG_WAVC_PRSEG |
| MDC | 10:1984 | ST Segment | MDC_ECG_WAVC_STSEG |
| MDC | 10:2048 | J-point | MDC_ECG_WAVC_STJ |
| MDC | 10:2112 | ST measurement point | MDC_ECG_WAVC_STM |
| MDC | 10:2176 | Isolated QRS-like artifact | MDC_ECG_WAVC_ARFCT |
| MDC | 10:2240 | Calibration pulse (individual pulse) | MDC_ECG_WAVC_CALP |
| MDC | 10:2304 | ST change | MDC_ECG_WAVC_STCH |
| MDC | 10:2368 | T-wave change | MDC_ECG_WAVC_TCH |
| MDC | 10:2432 | Ventricular Activation Time | MDC_ECG_WAVC_VAT |
| MDC | 10:4096 | Antibradycardia pace spike | MDC_ECG_WAVP_PACE |
| MDC | 10:4352 | atrium Antibradycardia pace spike | MDC_ECG_WAVP_PACE_ATR |
| MDC | 10:4608 | right atrium Antibradycardia pace spike | MDC_ECG_WAVP_PACE_ATR_R |
| MDC | 10:4864 | left atrium Antibradycardia pace spike | MDC_ECG_WAVP_PACE_ATR_L |
| MDC | 10:5120 | ventricular Antibradycardia pace spike | MDC_ECG_WAVP_PACE_V |
| MDC | 10:5376 | right ventricle Antibradycardia pace spike | MDC_ECG_WAVP_PACE_V_R |
| MDC | 10:5632 | left ventricle Antibradycardia pace spike | MDC_ECG_WAVP_PACE_V_L |
| MDC | 10:5888 | transthoracic Antibradycardia pace spike | MDC_ECG_WAVP_PACE_EXT |
| MDC | 10:6144 | Antitachycardia pace spike | MDC_ECG_WAVP_ATPACE |
| MDC | 10:6400 | atrium Antitachycardia pace spike | MDC_ECG_WAVP_ATPACE_ATR |
| MDC | 10:6656 | ventricle Antitachycardia pace spike | MDC_ECG_WAVP_ATPACE_V |
| MDC | 10:6912 | transthoracic Antitachycardia pace spike | MDC_ECG_WAVP_ATPACE_EXT |
| MDC | 10:7168 | Cardioversion spike | MDC_ECG_WAVP_CDVS |
| MDC | 10:7424 | atrium Cardioversion spike | MDC_ECG_WAVP_CDVS_ATR |
| MDC | 10:7680 | ventricle Cardioversion spike | MDC_ECG_WAVP_CDVS_V |
| MDC | 10:7936 | transthoracic Cardioversion spike | MDC_ECG_WAVP_CDVS_EXT |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|---|--|
| MDC | 10:8192 | Defibrillation spike | MDC_ECG_WAVP_DEFIB |
| MDC | 10:8448 | atrium Defibrillation spike | MDC_ECG_WAVP_DEFIB_ATR |
| MDC | 10:8704 | ventricle Defibrillation spike | MDC_ECG_WAVP_DEFIB_V |
| MDC | 10:8960 | transthoracic Defibrillation spike | MDC_ECG_WAVP_DEFIB_EXT |
| MDC | 10:8192 | Heart beat | MDC_ECG_BEAT |
| MDC | 10:8208 | Normal beat (sinus beat, normal conduction) | MDC_ECG_BEAT_NORMAL |
| MDC | 10:8224 | Abnormal beat | MDC_ECG_BEAT_ABNORMAL |
| MDC | 10:8240 | Dominant beat | MDC_ECG_BEAT_DOMINANT |
| MDC | 10:8256 | Supraventricular premature contraction | MDC_ECG_BEAT_SV_P_C |
| MDC | 10:8272 | Atrial premature contraction (beat) | MDC_ECG_BEAT_ATR_P_C |
| MDC | 10:8288 | Junctional (nodal) premature contraction | MDC_ECG_BEAT_JUNC_P_C |
| MDC | 10:8304 | Aberrated atrial premature beat (Ashman beat) | MDC_ECG_BEAT_ATR_P_C_ABERR |
| MDC | 10:8320 | Non-conducted p-wave (blocked) | MDC_ECG_BEAT_ATR_PWAVE_BLK |
| MDC | 10:8336 | Ventricular premature contraction beat | MDC_ECG_BEAT_V_P_C |
| MDC | 10:8352 | Fusion of ventricular and normal beat | MDC_ECG_BEAT_V_P_C_FUSION |
| MDC | 10:8368 | R-on-T premature ventricular beat | MDC_ECG_BEAT_V_P_C_RonT |
| MDC | 10:8384 | Supraventricular escape beat | MDC_ECG_BEAT_SV_ESC |
| MDC | 10:8400 | Atrial escape beat | MDC_ECG_BEAT_ATR_ESC |
| MDC | 10:8416 | Junctional (nodal) escape beat | MDC_ECG_BEAT_JUNC_ESC |
| MDC | 10:8432 | Ventricular escape beat | MDC_ECG_BEAT_V_ESC |
| MDC | 10:8448 | Bundle branch block beat | MDC_ECG_BEAT_BB_BLK |
| MDC | 10:8464 | Left bundle branch block beat | MDC_ECG_BEAT_LBB_BLK_COMP |
| MDC | 10:8480 | Incomplete left bundle branch block beat | MDC_ECG_BEAT_LBB_BLK_INCOMP |
| MDC | 10:8496 | Right bundle branch block beat | MDC_ECG_BEAT_RBB_BLK_COMP |
| MDC | 10:8512 | Incomplete right bundle branch block beat | MDC_ECG_BEAT_RBB_BLK_INCOMP |
| MDC | 10:8528 | Left anterior fascicular block beat | MDC_ECG_BEAT_BLK_ANT_L_HEMI |
| MDC | 10:8544 | Left posterior fascicular block beat | MDC_ECG_BEAT_BLK_POS_L_HEMI |
| MDC | 10:8560 | bifascicular block beat | MDC_ECG_BEAT_BLK_BIFASC |
| MDC | 10:8576 | trifascicular block beat | MDC_ECG_BEAT_BLK_TRIFASC |
| MDC | 10:8592 | bilateral bundle-branch block beat | MDC_ECG_BEAT_BLK_BILAT |
| MDC | 10:8608 | intraventricular conduction disturbance | MDC_ECG_BEAT_BLK_IVCD |
| MDC | 10:8624 | pre-excitation | MDC_ECG_BEAT_PREX |
| MDC | 10:8640 | Wolf-Parkinson-White syndrome | MDC_ECG_BEAT_WPW_UNK |
| MDC | 10:8656 | Wolf-Parkinson type A | MDC_ECG_BEAT_WPW_A |
| MDC | 10:8672 | Wolf-Parkinson type B | MDC_ECG_BEAT_WPW_B |
| MDC | 10:8688 | Lown-Ganong-Levine syndrome | MDC_ECG_BEAT_LGL |
| MDC | 10:8704 | Paced beat | MDC_ECG_BEAT_PACED |
| MDC | 10:8720 | Pacemaker Fusion beat | MDC_ECG_BEAT_PACED_FUS |
| MDC | 10:8736 | Unclassifiable beat | MDC_ECG_BEAT_UNKNOWN |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|--|--|
| MDC | 10:8752 | Pacemaker Learning beat | MDC_ECG_BEAT_LEARN |
| MDC | 10:11200 | No Noise | MDC_ECG_NOISE_CLEAN |
| MDC | 10:11216 | Moderate Noise, beats can be detected but cannot be classified | MDC_ECG_NOISE_MODERATE |
| MDC | 10:11232 | Severe Noise, beats cannot be detected or classified | MDC_ECG_NOISE_SEVERE |
| MDC | 10:11248 | No ECG signal is available | MDC_ECG_NOISE_NOSIGNAL |

Note

In a prior version of this table, the code 10:608 was specified for the concept R wave.

CID 3337 Hemodynamic Annotations

Type: Extensible
Version: 20160314

Table CID 3337. Hemodynamic Annotations

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| DCM | 109014 | 35% of thermal/dye dilution CO | | |
| DCM | 109015 | 70% of thermal/dye dilution CO | | |
| DCM | 109016 | A wave peak pressure | | |
| DCM | 109017 | A wave pressure, average | | |
| DCM | 109018 | Beat detected (accepted) | | |
| DCM | 109019 | Beat detected (rejected) | | |
| SRT | F-00E22 | Average diastolic blood pressure | 314453003 | C1282163 |
| SRT | F-00E1F | Minimum diastolic blood pressure | 314451001 | C1282161 |
| SRT | R-FAB5C | End diastole | 416190007 | C1562146 |
| DCM | 109023 | End of expiration | | |
| DCM | 109024 | End of inspiration | | |
| DCM | 109070 | End of systole | | |
| DCM | 109071 | Indicator mean transit time | | |
| DCM | 109025 | Max dp/dt | | |
| DCM | 109026 | Max neg dp/dt | | |
| SRT | F-31150 | Mean blood pressure | 6797001 | C0428886 |
| DCM | 109028 | Peak of thermal cardiac output bolus | | |
| DCM | 109029 | Start of expiration | | |
| DCM | 109030 | Start of inspiration | | |
| DCM | 109031 | Start of thermal CO | | |
| SRT | F-00E14 | Average systolic blood pressure | 314440001 | C1282151 |
| SRT | F-00E11 | Maximum systolic blood pressure | 314439003 | C1282150 |
| DCM | 109072 | Tau | | |
| DCM | 109073 | V max myocardial | | |
| DCM | 109034 | V wave peak pressure | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| DCM | 109035 | V wave pressure, average | | |
| DCM | 109036 | Valve close | | |
| DCM | 109037 | Valve open | | |

CID 3339 Electrophysiology Annotations

Type: Extensible
Version: 20020904

Table CID 3339. Electrophysiology Annotations

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 109038 | Ablation off |
| DCM | 109039 | Ablation on |
| DCM | 109040 | HIS bundle wave |
| DCM | 109041 | P wave |
| DCM | 109042 | Q wave |
| DCM | 109043 | R wave |
| DCM | 109044 | S wave |
| DCM | 109045 | Start of atrial contraction |
| DCM | 109046 | Start of atrial contraction (subsequent) |
| DCM | 109047 | Stimulation at rate 1 interval |
| DCM | 109048 | Stimulation at rate 2 interval |
| DCM | 109049 | Stimulation at rate 3 interval |
| DCM | 109050 | Stimulation at rate 4 interval |
| DCM | 109051 | T wave |
| DCM | 109052 | V wave |
| DCM | 109053 | V wave of next beat |

CID 3400 Procedure Log Titles

Type: Extensible
Version: 20030327

Table CID 3400. Procedure Log Titles

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------|
| DCM | 121120 | Cath Lab Procedure Log |

CID 3401 Types of Log Notes

Type: Extensible
Version: 20030327

Table CID 3401. Types of Log Notes

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 121171 | Tech Note |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------|
| DCM | 121172 | Nursing Note |
| DCM | 121173 | Physician Note |
| DCM | 121174 | Procedure Note |
| DCM | 121123 | Patient Status or Event |

CID 3402 Patient Status and Events

Type: Extensible
Version: 20090615

Table CID 3402. Patient Status and Events

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 122001 | Patient called to procedure room |
| DCM | 122002 | Patient admitted to procedure room |
| DCM | 122003 | Patient given pre-procedure instruction |
| DCM | 122004 | Patient informed consent given |
| DCM | 122005 | Patient advance directive given |
| DCM | 122006 | Nil Per Os (NPO) status confirmed |
| DCM | 122007 | Patient assisted to table |
| DCM | 122008 | Patient prepped and draped |
| DCM | 122009 | Patient connected to continuous monitoring |
| DCM | 122010 | Patient transferred to holding area |
| DCM | 122011 | Patient transferred to surgery |
| DCM | 122012 | Patient transferred to CCU |
| DCM | 122020 | Patient disoriented |
| DCM | 122021 | Patient reports nausea |
| DCM | 122022 | Patient reports discomfort |
| DCM | 122023 | Patient reports chest pain |
| DCM | 122024 | Patient reports no pain |
| DCM | 122025 | Patient alert |
| DCM | 122026 | Patient restless |
| DCM | 122027 | Patient sedated |
| DCM | 122028 | Patient asleep |
| DCM | 122029 | Patient unresponsive |
| DCM | 122030 | Patient has respiratory difficulty |
| DCM | 122031 | Patient coughed |
| DCM | 122032 | Patient disconnected from continuous monitoring |
| DCM | 122033 | Hemostasis achieved |
| DCM | 122034 | Hemostasis not achieved - oozing |
| DCM | 122035 | Hemostasis not achieved - actively bleeding |
| DCM | 122036 | Patient given post-procedure instruction |
| DCM | 122038 | Patient pronounced dead |
| DCM | 122039 | Patient transferred to morgue |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------------|
| DCM | 122037 | Patient discharged from department |

CID 3403 Percutaneous Entry

Type: Extensible
Version: 20030327

Table CID 3403. Percutaneous Entry

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 3746 "Percutaneous Entry Site"</i> | | |
| <i>Include CID 3747 "Percutaneous Closure"</i> | | |

CID 3404 Staff Actions

Type: Extensible
Version: 20030327

Table CID 3404. Staff Actions

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------|
| DCM | 122041 | Personnel Arrived |
| DCM | 122042 | Personnel Departed |
| DCM | 122043 | Page Sent To |
| DCM | 122044 | Consultation With |
| DCM | 122045 | Office called |

CID 3405 Procedure Action Values

Type: Extensible
Version: 20030327

Table CID 3405. Procedure Action Values

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | P1-30350 | Atherectomy | 6832004 | C0162513 |
| SRT | P1-30351 | Atherectomy by rotary cutter | 65659003 | C0162655 |
| SRT | P1-30352 | Atherectomy by laser | 76611008 | C0521229 |
| SRT | P1-30530 | Selective embolization of artery | 57238002 | C0189632 |
| SRT | P5-31500 | Percutaneous transluminal balloon angioplasty | 68457009 | C0411287 |
| SRT | P5-39010 | Transcatheter therapy for embolization | 16736007 | C0203006 |
| SRT | P5-39050 | Percutaneous retrieval of intravascular foreign body | 37630009 | C0203013 |
| SRT | P1-05550 | Stent placement | 103716009 | C0522776 |
| SRT | P5-39015 | Transcatheter deployment of detachable balloon | 105372003 | C0524313 |
| SRT | P5-39191 | Percutaneous insertion of intravascular filter | 105373008 | C0524314 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------|----------------------|------------------------|
| Include CID 3250 "Catheterization Procedure Phase" | | | | |
| Include CID 3406 "Non-coronary Transcatheter Interventions" | | | | |
| Include CID 3428 "Imaging Procedures" | | | | |

CID 3406 Non-coronary Transcatheter Interventions

Type: Extensible
Version: 20030327

Table CID 3406. Non-coronary Transcatheter Interventions

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------|
| DCM | 122053 | Valvular Intervention |
| DCM | 122054 | Aortic Intervention |
| DCM | 122055 | Septal Defect Intervention |
| DCM | 122056 | Vascular Intervention |
| DCM | 122057 | Myocardial biopsy |

CID 3407 Purpose of Reference to Object

Type: Extensible
Version: 20030327

Table CID 3407. Purpose of Reference to Object

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 122072 | Pre-procedure log |
| DCM | 122073 | Analysis or measurements for current procedure |
| DCM | 122075 | Prior report for current patient |

CID 3408 Actions With Consumables

Type: Extensible
Version: 20030327

Table CID 3408. Actions With Consumables

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------------|
| DCM | 122076 | Consumable taken from inventory |
| DCM | 122077 | Consumable returned to inventory |
| DCM | 122078 | Remaining consumable disposed |
| DCM | 122079 | Consumable unusable |

CID 3409 Administration of Drugs/Contrast

Type: Extensible
Version: 20030327

Table CID 3409. Administration of Drugs/Contrast

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------|
| DCM | 122081 | Drug start |
| DCM | 122082 | Drug end |
| DCM | 122083 | Drug administered |
| DCM | 122084 | Contrast start |
| DCM | 122085 | Contrast end |
| DCM | 122086 | Contrast administered |
| DCM | 122087 | Infusate start |
| DCM | 122088 | Infusate end |

CID 3410 Numeric Parameters of Drugs/Contrast

Type: Extensible
Version: 20070124

Table CID 3410. Numeric Parameters of Drugs/Contrast

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------------|
| DCM | 122091 | Volume administered |
| DCM | 122092 | Undiluted dose administered |
| DCM | 122093 | Concentration |
| DCM | 122094 | Rate of administration |
| DCM | 122095 | Duration of administration |
| DCM | 122096 | Volume unadministered or discarded |
| DCM | 121382 | Quantity administered |
| DCM | 121383 | Mass administered |

CID 3411 Intracoronary Devices

Type: Extensible
Version: 20110609

Table CID 3411. Intracoronary Devices

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR Equivalent | Trade Name (Informative) |
|--------------------------|------------|---|----------------------|------------------------|-----------------|--------------------------|
| SRT | A-26912 | Percutaneous Transluminal Angioplasty Balloon | 102319006 | C0522648 | 113-1 | |
| SRT | R-002F0 | Cutting Balloon Angioplasty (CBA) Device | 371794009 | C1269809 | 113-2 | |
| SRT | A-25500 | Stent | 65818007 | C0038257 | 113-3 | |
| SRT | R-002FD | Directional Coronary Atherectomy (DCA) Device | 371796006 | C1269811 | 113-4 | |
| SRT | A-25610 | Rotational Atherectomy Device | 102313007 | C0522643 | 113-5 | Rotablator™ |
| SRT | R-0036F | Saline Thrombectomy | 371797002 | C1299427 | 113-6 | AngioJet™ |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR Equivalent | Trade Name (Informative) |
|--------------------------|------------|---|----------------------|------------------------|-----------------|--------------------------|
| SRT | A-26920 | Transluminal Extraction Catheter (TEC) | 21870002 | C0521199 | 113-7 | |
| SRT | A-81080 | Laser | 38586004 | C0458142 | 113-8 | |
| SRT | R-00312 | Intravascular Ultrasound (IVUS) Device | 371795005 | C1269810 | 113-9 | |
| SRT | R-00310 | Intracoronary Doppler guide wire | 371788001 | C1269808 | 113-10 | Flowire™ |
| SRT | R-00311 | Intracoronary pressure guide wire | 371789009 | C1299422 | 113-11 | |
| SRT | A-040ED | Brachytherapy Device | 228748004 | C0454156 | | |
| SRT | R-00361 | Radiofrequency Ablation Device | 371791001 | C1299424 | | |
| SRT | A-00D87 | Intravascular Optical Coherence Tomography Device | 445282004 | C2919367 | | |
| SRT | A-00927 | Guide Wire | 272224001 | C0181089 | | |
| SRT | A-26802 | Guiding Catheter | 102317008 | C0221799 | | |

CID 3412 Intervention Actions and Status

Type: Extensible
Version: 20030327

Table CID 3412. Intervention Actions and Status

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 122301 | Guidewire crossing lesion unsuccessful |
| DCM | 122302 | Guidewire crossing lesion successful |
| DCM | 122303 | Angioplasty balloon inflated |
| DCM | 122304 | Angioplasty balloon deflated |
| DCM | 122305 | Device deployed |
| DCM | 122306 | Stent re-expanded |
| DCM | 122307 | Object removed |
| DCM | 122308 | Radiation applied |
| DCM | 122309 | Radiation removed |
| DCM | 122310 | Interventional device placement unsuccessful |
| DCM | 122311 | Interventional device placed |
| DCM | 122312 | Intervention performed |
| DCM | 122313 | Interventional device withdrawn |

CID 3413 Adverse Outcomes

Type: Extensible
Version: 20030327

Table CID 3413. Adverse Outcomes

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|------------------------------|
| DCM | 122167 | Death During Catheterization |
| <i>Include CID 3754 "Vascular Complications"</i> | | |
| <i>Include CID 3755 "Cath Complications"</i> | | |

CID 3414 Procedure Urgency

Type: Extensible
Version: 20030327

Table CID 3414. Procedure Urgency

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR Equivalents |
|--------------------------|------------|--------------------|----------------------|------------------------|------------------|
| SRT | G-D210 | Elective Procedure | 103390000 | C0439608 | 21-1, 78-1, 92-1 |
| SRT | G-D216 | Urgent Procedure | 103391001 | C0439609 | 21-2, 78-2, 92-2 |
| SRT | G-D209 | Emergent Procedure | 25876001 | C0175673 | 21-3, 78-3, 92-3 |
| SRT | R-41C8D | Salvage Procedure | 257950002 | C0442967 | 21-4, 78-4, 92-4 |

CID 3415 Cardiac Rhythms

This Context Group comprises the ECG rhythm annotations of ISO/IEEE 11073-10102. The terms included in the table below may not constitute the complete list; see the ISO/IEEE Standard.

Note

Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10102 available through <http://standards.ieee.org/>.

Type: Extensible
Version: 20080927

Table CID 3415. Cardiac Rhythms

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|---|--|
| MDC | 10:9216 | Sinus Rhythm | MDC_ECG_RHY_SINUS_RHY |
| MDC | 10:9232 | Normal Sinus Rhythm | MDC_ECG_RHY_SINUS_NORMAL_RHY |
| MDC | 10:9248 | Sinus Bradycardia | MDC_ECG_RHY_SINUS_BRADY |
| MDC | 10:9264 | Sinus Tachycardia | MDC_ECG_RHY_SINUS_TACHY |
| MDC | 10:9280 | Sinus Arrhythmia | MDC_ECG_RHY_SINUS_ARRHY |
| MDC | 10:9296 | Respiratory Sinus Arrhythmia | MDC_ECG_RHY_RESP_ARRHY |
| MDC | 10:9312 | Non-Respiratory Sinus Arrhythmia | MDC_ECG_RHY_NON_RESP_ARRHY |
| MDC | 10:9328 | Wandering Sinus Pacemaker within the sinus node | MDC_ECG_RHY_WANDP_ARRHY |
| MDC | 10:9344 | Wandering Pacemaker between the sinus node and the A-V node | MDC_ECG_RHY_WANDPAV_ARRHY |
| MDC | 10:9360 | Atrial Ectopic Rhythm | MDC_ECG_RHY_ATR_ECT_RHY |
| MDC | 10:9376 | Atrial Bigeminy | MDC_ECG_RHY_ATR_BIGEM |
| MDC | 10:9392 | Atrial Tachycardia | MDC_ECG_RHY_ATR_TACHY |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|--|--|
| MDC | 10:9408 | Paroxysmal Atrial Tachycardia | MDC_ECG_RHY_ATR_TACHY_PAROX |
| MDC | 10:9424 | Multifocal Atrial Tachycardia | MDC_ECG_RHY_ATR_TACHY_MF |
| MDC | 10:9440 | Automatic Atrial Tachycardia | MDC_ECG_RHY_ATR_TACHY_AUTO |
| MDC | 10:9456 | Atrial flutter | MDC_ECG_RHY_ATR_FLUT |
| MDC | 10:9472 | Atrial fibrillation | MDC_ECG_RHY_ATR_FIB |
| MDC | 10:9488 | Supraventricular (atrial or junctional) Ectopic Rhythm | MDC_ECG_RHY_SV_ECT_RHY |
| MDC | 10:9504 | Supraventricular Tachycardia (atrial or junctional) | MDC_ECG_RHY_SV_TACHY |
| MDC | 10:9520 | Supraventricular Paroxysmal Tachycardia | MDC_ECG_RHY_SV_TACHY_PAROX |
| MDC | 10:9536 | AV junctional (nodal) rhythm | MDC_ECG_RHY_JUNC_RHY |
| MDC | 10:9552 | AV junctional (nodal) escape rhythm | MDC_ECG_RHY_JUNC_ESC_BEATS |
| MDC | 10:9568 | Accelerated AV junctional (nodal) rhythm | MDC_ECG_RHY_JUNC_ACCEL |
| MDC | 10:9584 | Junctional Tachycardia | MDC_ECG_RHY_JUNC_TACHY |
| MDC | 10:9600 | AV reciprocating tachycardia | MDC_ECG_RHY_AV_TACHY_RECIP |
| MDC | 10:9616 | Reentrant AV nodal tachycardia | MDC_ECG_RHY_AV_TACHY_REENTRANT |
| MDC | 10:9632 | First Degree AV Block | MDC_ECG_RHY_AV_HEART_BLK_DEG_1 |
| MDC | 10:9648 | Second Degree AV Block | MDC_ECG_RHY_AV_HEART_BLK_DEG_2 |
| MDC | 10:9664 | Second Degree AV Block Type I (Wenckebach, or Mobitz Type I) | MDC_ECG_RHY_AV_HEART_BLK_DEG_2_I |
| MDC | 10:9680 | Second Degree AV Block Type II (Mobitz Type II) | MDC_ECG_RHY_AV_HEART_BLK_DEG_2_II |
| MDC | 10:9696 | Third Degree AV Block (complete AV block) | MDC_ECG_RHY_AV_HEART_BLK_DEG_3 |
| MDC | 10:9712 | AV Dissociation | MDC_ECG_RHY_AV DISSOC |
| MDC | 10:9728 | AV dissociation with interference | MDC_ECG_RHY_AV DISSOC_INT |
| MDC | 10:9744 | Isorhythmic AV dissociation | MDC_ECG_RHY_AV DISSOC_ISO |
| MDC | 10:9760 | Complete AV dissociation | MDC_ECG_RHY_AV DISSOC_COMP |
| MDC | 10:9776 | First Degree SA Block | MDC_ECG_RHY_SA_HEART_BLK_DEG_1 |
| MDC | 10:9792 | Second Degree SA Block Type I (Wenckebach) | MDC_ECG_RHY_SA_HEART_BLK_DEG_2_I |
| MDC | 10:9808 | Second Degree SA Block Type II | MDC_ECG_RHY_SA_HEART_BLK_DEG_2_II |
| MDC | 10:9824 | Third Degree SA Block (complete SA block) | MDC_ECG_RHY_SA_HEART_BLK_DEG_3 |
| MDC | 10:9840 | Ventricular rhythm | MDC_ECG_RHY_V_RHY |
| MDC | 10:9856 | Idioventricular (ventricular escape) rhythm | MDC_ECG_RHY_V_IDIO_RHY |
| MDC | 10:9872 | Ventricular Parasystole | MDC_ECG_RHY_V_PARA |
| MDC | 10:9888 | Accelerated idioventricular rhythm | MDC_ECG_RHY_V_AIVR |
| MDC | 10:9904 | Slow Ventricular Tachycardia (Idioventricular Tachycardia) | MDC_ECG_RHY_V_IDIO_TACHY |
| MDC | 10:9920 | Ventricular Bigeminy | MDC_ECG_RHY_V_BIGEM |
| MDC | 10:9936 | Ventricular Trigeminy | MDC_ECG_RHY_V_TRIGEM |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|---|--|
| MDC | 10:9952 | Ventricular Couplet | MDC_ECG_RHY_V_P_C_CPLT |
| MDC | 10:9968 | Ventricular Run | MDC_ECG_RHY_V_P_C_RUN |
| MDC | 10:9984 | Ventricular Tachycardia (nonparoxysmal) | MDC_ECG_RHY_V_TACHY |
| MDC | 10:10000 | Ventricular Flutter | MDC_ECG_RHY_V_FLUT |
| MDC | 10:10016 | Ventricular Fibrillation | MDC_ECG_RHY_V_FIB |
| MDC | 10:10032 | Nonsustained Ventricular Tachycardia (paroxysmal) | MDC_ECG_RHY_V_TACHY_PAROX |
| MDC | 10:10048 | Sustained Monomorphic Ventricular Tachycardia | MDC_ECG_RHY_V_TACHY_MONO |
| MDC | 10:10064 | Polymorphic Ventricular Tachycardia | MDC_ECG_RHY_V_TACHY_POLY |
| MDC | 10:10080 | Torsades de Pointes Ventricular Tachycardia | MDC_ECG_RHY_V_TACHY_TDP |
| MDC | 10:10096 | pre-excitation | MDC_ECG_RHY_PREX |
| MDC | 10:10112 | Wolf-Parkinson-White syndrome | MDC_ECG_RHY_WPW_UNK |
| MDC | 10:10128 | Wolf-Parkinson type A | MDC_ECG_RHY_WPW_A |
| MDC | 10:10144 | Wolf-Parkinson type B | MDC_ECG_RHY_WPW_B |
| MDC | 10:10160 | Lown-Ganong-Levine syndrome | MDC_ECG_RHY_LGL |
| MDC | 10:10336 | Asystole | MDC_ECG_RHY_ASYSTOLE |
| MDC | 10:10352 | Irregular rhythm | MDC_ECG_RHY_IRREG |
| MDC | 10:10368 | Low Heart Rate Variability | MDC_ECG_RHY_LHRV |
| MDC | 10:10416 | T-wave alternans | MDC_ECG_RHY_TALT |
| MDC | 10:10432 | Bradycardia | MDC_ECG_RHY_BRADY |
| MDC | 10:10448 | Calibration signal (sustained) | MDC_ECG_RHY_CALS |
| MDC | 10:10176 | Atrial Demand Mode Pacing | MDC_ECG_RHY_EPADM |
| MDC | 10:10240 | Ventricular Demand Mode Pacing | MDC_ECG_RHY_EPVDM |
| MDC | 10:10304 | Anti-Tachycardia Pacing | MDC_ECG_RHY_EPAVT |

Note

A prior version of this context group used codes from the SCP-ECG vocabulary.

CID 3416 Respiration Rhythms

Type: Extensible
Version: 20030327

Table CID 3416. Respiration Rhythms

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | F-21301 | normal respiratory rhythm | 5467003 | C0231843 |
| SRT | F-21303 | irregular breathing | 248585001 | C0425492 |
| SRT | F-20130 | gasping respiration | 23141003 | C0425449 |
| SRT | F-21334 | abnormal respiratory rhythm | 248584002 | C0425491 |
| SRT | F-21331 | respiration intermittent | 271824009 | C1313952 |

CID 3418 Lesion Risk

Type: Extensible
Version: 20030327

Table CID 3418. Lesion Risk

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning |
|--------------------------|-----------------------|------------|----------------------|
| NCDR | 2.0b | 111-1 | Low Risk Lesion |
| NCDR | 2.0b | 111-2 | Moderate Risk Lesion |
| NCDR | 2.0b | 111-3 | High Risk Lesion |

CID 3419 Findings Titles

Type: Extensible
Version: 20030327

Table CID 3419. Findings Titles

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------|
| DCM | 121071 | Finding |
| DCM | 121073 | Impression |
| DCM | 121075 | Recommendation |

CID 3421 Procedure Action

Type: Extensible
Version: 20030327

Table CID 3421. Procedure Action

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | 121130 | Start Procedure Action |
| DCM | 121131 | End Procedure Action |
| DCM | 121132 | Suspend Procedure Action |
| DCM | 121133 | Resume Procedure Action |

CID 3422 Device Use Actions

Type: Extensible
Version: 20030327

Table CID 3422. Device Use Actions

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | R-002F8 | Device inserted into sheath | 371877003 | C1299350 |
| SRT | R-002F7 | Device at site of interest | 371876007 | C1299349 |
| SRT | R-002FB | Device withdrawn / removed | 371875006 | C1299348 |
| SRT | R-002F6 | Device applied to patient | 373061006 | C1298903 |
| SRT | R-002FA | Device used | 373062004 | C1298904 |
| SRT | R-10042 | Device crossed septum | 386125002 | C1272581 |
| DCM | 122089 | Device crossed lesion | | |

CID 3423 Numeric Device Characteristics

Type: Extensible
Version: 20160314

Table CID 3423. Numeric Device Characteristics

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | G-D7FE | Length | 410668003 | C1444754 |
| SRT | M-02550 | Diameter | 81827009 | C1301886 |
| DCM | 122097 | Catheter Curve | | |
| DCM | 122098 | Transmit Frequency | | |
| SRT | G-D705 | Volume | 118565006 | C0449468 |
| DCM | 121208 | Inter-Marker Distance | | |

CID 3425 Intervention Parameters

Type: Extensible
Version: 20030327

Table CID 3425. Intervention Parameters

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | R-002D0 | Angioplasty Inflation pressure | 371851006 | C1299326 |
| SRT | R-002CF | Angioplasty Inflation duration | 371852004 | C1299327 |
| SRT | R-0036C | Rotational Atherectomy Speed | 371854003 | C1299329 |
| SRT | R-002F2 | Delivered Radiation Dose | 371892002 | C1299361 |
| SRT | R-10043 | Ablation power | 386131004 | C1272583 |
| SRT | R-10044 | Ablation frequency | 386132006 | C1272584 |

CID 3426 Consumables Parameters

Type: Extensible
Version: 20030327

Table CID 3426. Consumables Parameters

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------|
| DCM | 121145 | Description of Material |
| DCM | 121148 | Unit Serial Identifier |
| DCM | 121149 | Lot Identifier |

CID 3427 Equipment Events

Type: Extensible
Version: 20100608

Table CID 3427. Equipment Events

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------|
| DCM | 110501 | Equipment failure |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------------|
| DCM | 122047 | Equipment brought to procedure room |
| DCM | 122048 | Equipment ready |
| DCM | 122049 | Equipment removed |

CID 3428 Imaging Procedures

Type: Extensible
Version: 20030327

Table CID 3428. Imaging Procedures

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | P5-009A0 | Angiography | 77343006 | C0002978 |
| SRT | P5-32130 | Aortography | 54640009 | C0003515 |
| SRT | P5-30100 | Coronary Arteriography | 33367005 | C0085532 |
| SRT | P5-3003A | Cardiac ventriculography | 252426003 | C0596683 |
| SRT | P5-30041 | Left Ventriculography | 265484009 | C0412219 |
| SRT | P5-3003F | Right Ventriculography | 265483003 | C0412220 |
| SRT | P5-30107 | Bypass graft angiography | 252427007 | C0430469 |
| DCM | 122058 | Arterial conduit angiography | | |
| SRT | P5-B3002 | Transesophageal echocardiography | 105376000 | C0206054 |
| SRT | P5-B3003 | Transthoracic echocardiography | 169242007 | C0013516 |
| SRT | P5-B3004 | Epicardial echocardiography | 252418006 | C0430462 |
| SRT | P5-B001D | Intravascular ultrasound | 241466007 | C0412530 |
| SRT | P5-B3006 | Intracardiac echocardiography | 252421008 | C0430464 |

CID 3429 Catheterization Devices

Type: Extensible
Version: 20030327

Table CID 3429. Catheterization Devices

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | A-28051 | Intra-Aortic Balloon Pump (IABP) | 129113006 | C0702122 |
| SRT | R-00306 | Fluid filled catheter | 371798007 | C1299428 |
| SRT | R-00304 | Fiberoptic catheter | 371801001 | C1300076 |
| SRT | R-0030A | Hall catheter | 371799004 | C1299429 |
| SRT | R-00379 | Thermistor catheter | 371800000 | C1299430 |
| SRT | R-00383 | Tip manometer | 371802008 | C1299431 |
| SRT | A-26860 | Swann-Ganz catheter | 79952001 | C0179790 |
| SRT | F-9B75C | Sheath | 268461001 | C0419524 |
| SRT | R-10041 | Transseptal catheter | 386124003 | C1272580 |
| DCM | 122052 | Biopptome | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| Include CID 3411 "Intracoronary Devices" | | | | |

CID 3430 DateTime Qualifiers

Type: Extensible
Version: 20030327

Table CID 3430. DateTime Qualifiers

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------|
| DCM | 121136 | DateTime Unsynchronized |
| DCM | 121137 | DateTime Estimated |

CID 3440 Peripheral Pulse Locations

Type: Extensible
Version: 20030327

Table CID 3440. Peripheral Pulse Locations

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | T-47160 | Brachial Artery | 17137000 | C0006087 |
| SRT | T-45100 | Carotid Artery | 32062004 | C0162859 |
| SRT | T-47741 | Dorsalis Pedis Artery | 181362007 | C1269022 |
| SRT | T-47400 | Femoral Artery | 7657000 | C0015801 |
| SRT | T-47500 | Popliteal Artery | 43899006 | C0032649 |
| SRT | T-47600 | Posterior Tibial Artery | 13363002 | C0086835 |
| SRT | T-47300 | Radial Artery | 45631007 | C0162857 |
| SRT | T-47200 | Ulnar Artery | 44984001 | C0162858 |

CID 3441 Patient Assessments

Type: Extensible
Version: 20030327

Table CID 3441. Patient Assessments

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| LN | 8884-9 | Cardiac Rhythm | | C0488795 |
| LN | 9304-7 | Respiration Rhythm | | C0489261 |
| SRT | F-046D8 | Skin condition assessment | 364528001 | C1286230 |
| SRT | F-043E6 | Respiration assessment | 364062005 | C1285809 |
| SRT | F-04317 | Patient mental state assessment | 363871006 | C0278060 |

CID 3442 Peripheral Pulse Methods

Type: Extensible
Version: 20030327

Table CID 3442. Peripheral Pulse Methods

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | P2-01510 | Palpation | 113011001 | C0030247 |
| SRT | P1-30022 | Doppler | 83422003 | C0189575 |

CID 3446 Skin Condition

Type: Extensible
Version: 20030327

Table CID 3446. Skin Condition

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------|
| DCM | 122271 | skin condition Warm |
| DCM | 122272 | skin condition Cool |
| DCM | 122273 | skin condition Cold |
| DCM | 122274 | skin condition Dry |
| DCM | 122275 | skin condition Clammy |
| DCM | 122276 | skin condition Diaphoretic |
| DCM | 122277 | skin condition Flush |
| DCM | 122278 | skin condition Mottled |
| DCM | 122279 | skin condition Pale |

CID 3448 Airway Assessment

Type: Extensible
Version: 20030327

Table CID 3448. Airway Assessment

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------------|
| DCM | 122281 | airway unobstructed |
| DCM | 122282 | airway partially obstructed |
| DCM | 122283 | airway severely obstructed |

CID 3451 Calibration Objects

Type: Extensible
Version: 20040614

Table CID 3451. Calibration Objects

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | A-26800 | Catheter | 19923001 | C0085590 |
| SRT | A-10141 | Measuring Ruler | 102304005 | C0522637 |
| DCM | 122485 | Sphere | | |

CID 3452 Calibration Methods

Type: Extensible

Version: 20040614

Table CID 3452. Calibration Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------|
| DCM | 122486 | Geometric Isocenter |
| DCM | 122487 | Geometric Non-Isocenter |
| DCM | 122488 | Calibration Object Used |

CID 3453 Cardiac Volume Methods

Type: Extensible
Version: 20040614

Table CID 3453. Cardiac Volume Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------|
| DCM | 122558 | Area Length Kennedy |
| DCM | 122559 | Area Length Dodge |
| DCM | 122560 | Area Length Wynne |
| DCM | 122562 | Multiple Slices |
| DCM | 122563 | Boak |
| DCM | 122564 | TS Pyramid |
| DCM | 122565 | Two Chamber |
| DCM | 122566 | Parallelepiped |

CID 3455 Index Methods

Type: Extensible
Version: 20040614

Table CID 3455. Index Methods

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|------------------------|
| LN | 8277-6 | BSA | C0487992 |
| DCM | 122572 | BSA ^{1.219} | |

CID 3456 Sub-segment Methods

Type: Extensible
Version: 20040614

Table CID 3456. Sub-segment Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------|
| DCM | 122574 | Equidistant method |
| DCM | 122575 | User selected method |

CID 3458 Contour Realignment

Type: Extensible
Version: 20040614

Table CID 3458. Contour Realignment

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------|
| DCM | 122475 | Center of Gravity |
| DCM | 122476 | Long Axis Based |
| DCM | 122477 | No Realignment |

CID 3460 Circumferential Extent

Type: Extensible
Version: 20040614

Table CID 3460. Circumferential Extent

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------|
| DCM | 122464 | LAD Region in RAO Projection |
| DCM | 122465 | RCA Region in RAO Projection |

CID 3461 Regional Extent

Type: Extensible
Version: 20040614

Table CID 3461. Regional Extent

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------------------------|
| DCM | 122466 | Single LAD Region in RAO Projection |
| DCM | 122467 | Single RCA Region in RAO Projection |
| DCM | 122468 | Multiple LAD Region in RAO Projection |
| DCM | 122469 | Multiple RCA Region in RAO Projection |
| DCM | 122470 | LAD Region in LAO Projection |
| DCM | 122471 | RCA Region in LAO Projection |
| DCM | 122472 | CFX Region in LAO Projection |

CID 3462 Chamber Identification

Type: Extensible
Version: 20040614

Table CID 3462. Chamber Identification

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | T-32600 | Left Ventricle | 87878005 | C0225897 |
| SRT | T-32500 | Right Ventricle | 53085002 | C0225883 |
| SRT | T-32300 | Left Atrium | 82471001 | C0225860 |
| SRT | T-32200 | Right Atrium | 73829009 | C0225844 |

CID 3463 Ventricle Identification

Type: **Non-Extensible**
Version: 20080927

Table CID 3463. Ventricle Identification

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | T-32600 | Left Ventricle | 87878005 | C0225897 |
| SRT | T-32500 | Right Ventricle | 53085002 | C0225883 |

CID 3465 QA Reference Methods

Type: Extensible
Version: 20040614

Table CID 3465. QA Reference Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------|
| DCM | 122489 | Curve Fitted Reference |
| DCM | 122490 | Interpolated Local Reference |
| DCM | 122491 | Mean Local Reference |

CID 3466 Plane Identification

Type: Extensible
Version: 20130806

Table CID 3466. Plane Identification

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | R-40985 | Right Anterior Oblique | 399356000 | C1275852 |
| SRT | R-10220 | Left Anterior Oblique | 399135007 | C1275823 |
| SRT | R-10206 | Antero-posterior | 399348003 | C0442212 |
| SRT | R-10236 | Left Lateral | 399173006 | C0442198 |
| SRT | R-101C3 | Cranial LAO | 408723005 | C1443272 |
| SRT | R-101C5 | Cranial RAO | 408725003 | C1443274 |
| SRT | R-101C4 | Caudal LAO | 408724004 | C1443273 |
| SRT | R-101C6 | Caudal RAO | 408726002 | C1443275 |

Note

In a prior version of this Context Group, "right anterior oblique" was assigned the code R-10218, which in SNOMED is actually "Indirect iris transillumination"; this code has been replaced with the correct code R-40985.

CID 3467 Ejection Fraction

Type: Extensible
Version: 20040614

Table CID 3467. Ejection Fraction

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--|------------------------|
| LN | 8808-8 | Left Ventricular Ejection Fraction by Angiography | C0488723 |
| LN | 8815-3 | Right Ventricular Ejection Fraction by Angiography | C0488731 |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--|------------------------|
| DCM | 122406 | Left Atrial Ejection Fraction by Angiography | |

CID 3468 ED Volume

Type: Extensible
Version: 20110124

Table CID 3468. ED Volume

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|------------------------|
| LN | 8821-1 | Left Ventricular ED Volume | C0488738 |
| LN | 8822-9 | Right Ventricular ED Volume | C0488739 |
| DCM | 122407 | Left Atrial ED Volume | |

CID 3469 ES Volume

Type: Extensible
Version: 20040614

Table CID 3469. ES Volume

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|------------------------|
| LN | 8823-7 | Left Ventricular ES Volume | C0488740 |
| LN | 8824-5 | Right Ventricular ES Volume | C0488741 |
| DCM | 122408 | Left Atrial ES Volume | |

CID 3470 Vessel Lumen Cross-sectional Area Calculation Methods

Type: Extensible
Version: 20040614

Table CID 3470. Vessel Lumen Cross-sectional Area Calculation Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------|
| DCM | 122473 | Circular method |
| DCM | 122474 | Densitometric method |

CID 3471 Estimated Volumes

Type: Extensible
Version: 20040614

Table CID 3471. Estimated Volumes

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 121216 | Volume estimated from single 2D region |
| DCM | 121218 | Volume estimated from two non-coplanar 2D regions |

CID 3472 Cardiac Contraction Phase

Type: Extensible

Version: 20071031

Table CID 3472. Cardiac Contraction Phase

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | F-32020 | Systolic | 111973004 | C0039155 |
| SRT | F-32010 | Diastolic | 90892000 | C0012000 |

CID 3480 IVUS Procedure Phases

This context group outlines the phases of a catheterization procedure in which measurements are performed.

Type: Extensible
Version: 20040614

Table CID 3480. IVUS Procedure Phases

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | G-7298 | Cardiac catheterization post-intervention phase | 128960007 | C1292437 |
| SRT | G-7296 | Cardiac catheterization pre-intervention phase | 128958005 | C1292435 |

CID 3481 IVUS Distance Measurements

This context group is the set of distance measurements made in an IVUS procedure.

Type: Extensible
Version: 20050110

Table CID 3481. IVUS Distance Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| DCM | 122330 | EEM Diameter | | |
| SRT | G-0364 | Vessel lumen diameter | 397413000 | C1301408 |
| SRT | R-101AD | Stent Diameter | 408706001 | C1443256 |
| DCM | 122331 | Plaque Plus Media Thickness | | |
| DCM | 122332 | Lumen Perimeter | | |

CID 3482 IVUS Area Measurements

This context group is the set of cross-sectional area measurements made in an IVUS procedure.

Type: Extensible
Version: 20040614

Table CID 3482. IVUS Area Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| DCM | 122333 | EEM Cross-Sectional Area | | |
| SRT | G-0366 | Vessel lumen cross-sectional area | 397415007 | C1301410 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-101AF | Stent Cross-Sectional Area | 408705002 | C1443255 |
| DCM | 122334 | Plaque plus Media Cross-Sectional Area | | |
| DCM | 122335 | In-Stent Neointimal Cross-Sectional Area | | |

CID 3483 IVUS Longitudinal Measurements

This context group is a set of measurements that are made on a longitudinal image. A longitudinal image is a perpendicular cut plane reconstructed from an IVUS pullback multi-frame image.

Type: Extensible
Version: 20050110

Table CID 3483. IVUS Longitudinal Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | R-101B0 | Stent Length | 408703009 | C1443253 |
| SRT | R-101BC | Stenotic Lesion Length | 408716009 | C1443266 |
| DCM | 122341 | Calcium Length | | |
| DCM | 122364 | Stent Gap | | |

CID 3484 IVUS Indices and Ratios

This context group is the set of index and ratio calculations made in an IVUS procedure.

Type: Extensible
Version: 20040614

Table CID 3484. IVUS Indices and Ratios

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------------|
| DCM | 122343 | Lumen Eccentricity Index |
| DCM | 122344 | Plaque plus Media Eccentricity Index |
| DCM | 122345 | Remodeling Index |
| DCM | 122346 | Stent Symmetry Index |
| DCM | 122347 | Stent Expansion Index |
| DCM | 122348 | Lumen Shape Index |
| DCM | 122350 | Lumen Diameter Ratio |
| DCM | 122351 | Stent Diameter Ratio |
| DCM | 122352 | EEM Diameter Ratio |

CID 3485 IVUS Volume Measurements

This context group is the set of volume measurements made from an IVUS procedure.

Type: Extensible
Version: 20040614

Table CID 3485. IVUS Volume Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| DCM | 122371 | EEM Volume | | |
| DCM | 122372 | Lumen Volume | | |
| SRT | R-101B2 | Stent Volume | 408704003 | C1443254 |
| DCM | 122374 | In-Stent Neointimal Volume | | |
| DCM | 122375 | Native Plaque Volume | | |
| DCM | 122376 | Total Plaque Volume | | |

CID 3486 Vascular Measurement Sites

This context group is the set of sites where vascular measurements can be made.

Type: Extensible

Version: 20051103

Table CID 3486. Vascular Measurement Sites

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------|
| DCM | 122380 | Proximal Reference |
| DCM | 122381 | Distal Reference |
| DCM | 122382 | Site of Lumen Minimum |
| DCM | 122687 | Site of Lumen Maximum |

CID 3487 Intravascular Volumetric Regions

This context group is the set of regions where intravascular volumetric measurements can be made.

Type: Extensible

Version: ~~20140609~~20170413

Table CID 3487. Intravascular Volumetric Regions

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| DCM | 122383 | Stented Region | | |
| DCM | 122384 | Entire Pullback | | |
| DCM | 122385 | Proximal Stent Margin | | |
| DCM | 122386 | Distal Stent Margin | | |
| SRT | M-01000 | Lesion Morphologically Abnormal Structure | 49755003 | C0332447 |
| SRT | M-01100 | Lesion | 52988006 | C0221198 |
| SRT | R-002EF | Culprit Lesion | 371895000 | C1299364 |

Note

(M-01000, SRT, "Morphologically Abnormal Structure") was previously described with a Code Meaning of "Lesion", but that synonym has been retired as "inappropriate" in SNOMED. The Code Meaning has been replaced with the preferred SNOMED term, and the separate concept (M-01100, SRT, "Lesion") added.

CID 3488 Min/Max/Mean

This context group contains modifiers that indicate whether the measurement is a minimum, maximum or averaged value.

Type: Extensible
Version: 20040614

Table CID 3488. Min/Max/Mean

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A437 | Maximum | 56851009 | C0205289 |
| SRT | R-404FB | Minimum | 255605001 | C0547040 |
| SRT | R-00317 | Mean | 373098007 | C1298794 |

CID 3489 Calcium Distribution

This context group is a set of modifiers specifying the distribution of a calcium deposit in an arc of calcium measurement.

Type: Extensible
Version: 20040614

Table CID 3489. Calcium Distribution

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A139 | Superficial | 26283006 | C0205124 |
| SRT | G-A140 | Deep | 795002 | C0205125 |

CID 3491 IVUS Lesion Morphologies

This context group is a set of qualitative assessments for lesion morphology.

Type: Extensible
Version: 20040614

Table CID 3491. IVUS Lesion Morphologies

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------------------|----------------------|------------------------|
| <i>Include CID 3495 "IVUS Plaque Composition"</i> | | | | |
| DCM | 122356 | Soft plaque | | |
| DCM | 122357 | In-Stent Neointima | | |
| SRT | D3-80027 | Arterial (True) Aneurysm | 233981004 | C0340613 |
| SRT | M-32390 | Pseudo Aneurysm | 22036004 | C1510412 |
| DCM | 122361 | False Lumen | | |
| SRT | R-4047B | Concentric | 255465008 | C0439744 |
| SRT | R-40416 | Eccentric | 255380003 | C0439740 |
| SRT | M-52103 | Plaque Ulceration | 62189002 | C0333481 |
| DCM | 122363 | Plaque Rupture | | |
| DCM | 122389 | Vulnerable Plaque | | |
| DCM | 122390 | Eroded Plaque | | |

CID 3492 Vascular Dissection Classifications

This context group is a set of dissection classifications commonly detected with IVUS or CT/MR angiography.

Type: Extensible
Version: 20040614

Table CID 3492. Vascular Dissection Classifications

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | R-101B7 | Medial Dissection | 408711004 | C1443261 |
| SRT | R-101B8 | Intimal Dissection | 409509002 | C1443854 |
| SRT | R-101B9 | Adventitial Dissection | 409510007 | C1443855 |
| SRT | M-35063 | Intramural hematoma | 54493002 | C0333200 |
| DCM | 122388 | Intra-stent Dissection | | |

CID 3493 IVUS Relative Stenosis Severities

This context group is a set of stenosis severity classifications for multiple lesions within a segment. There will always be a worst stenosis (T-1), the stenosis with the smallest lumen size.

There can be multiple secondary stenoses (T-2, T-3, etc.), which are lesions meeting the definition of a stenosis, but with lumen sizes larger than the worst stenosis. Reference *"American College of Cardiology Clinical Expert Consensus Document on Standards for Acquisition, Measurement and Reporting of Intravascular Ultrasound Studies (IVUS) "*.

Type: Extensible
Version: 20040614

Table CID 3493. IVUS Relative Stenosis Severities

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------|
| DCM | 122367 | T-1 Worst |
| DCM | 122368 | T-2 Secondary |
| DCM | 122369 | T-3 Secondary |
| DCM | 122370 | T-4 Secondary |

CID 3494 IVUS Non Morphological Findings

Type: Extensible
Version: 20040614

Table CID 3494. IVUS Non Morphological Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| DCM | 122360 | True Lumen | | |
| SRT | R-101B3 | Arterial Blood Stasis | 408707005 | C1443257 |
| SRT | R-101B5 | Incomplete Stent apposition | 408709008 | C1443259 |
| SRT | R-101B6 | Acquired Incomplete stent apposition | 408710003 | C1443260 |

CID 3495 IVUS Plaque Composition

This context group is a set of qualitative assessments defining the composition of plaque.

Type: Extensible
Version: 20040614

Table CID 3495. IVUS Plaque Composition

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | M-78260 | Fibrous Plaque | 40772000 | C0334146 |
| SRT | D6-34737 | Vascular Calcification | 237897009 | C0342649 |
| SRT | M-35001 | Thrombus | 396339007 | C0087086 |
| DCM | 122394 | Fibro-Lipidic Plaque | | |
| DCM | 122395 | Necrotic-Lipidic Plaque | | |

CID 3496 IVUS Fiducial Points

This context group is a set of fiducial points (anatomical markers). Fiducial points are used as identifiable axial landmarks in determining the location of a measurement in a vessel.

Type: Extensible
Version: 20040614

Table CID 3496. IVUS Fiducial Points

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | G-035D | Collateral Branch of vessel | 397406000 | C1275670 |
| SRT | A-25500 | Stent | 65818007 | C0038257 |
| SRT | D6-34737 | Vascular Calcification | 237897009 | C0342649 |
| SRT | M-78260 | Fibrous Plaque | 40772000 | C0334146 |
| SRT | T-48000 | Vein | 29092000 | C0042449 |
| SRT | G-036A | Vessel Origin | 397421006 | C1301415 |

CID 3497 IVUS Arterial Morphology

Type: Extensible
Version: 20050110

Table CID 3497. IVUS Arterial Morphology

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|---------------------------|----------------------|------------------------|
| SRT | T-41100 | Lumen of artery | 67170007 | C0225997 |
| SRT | R-102AE | External Elastic Membrane | 414165007 | C1532733 |
| Include CID 3495 "IVUS Plaque Composition" | | | | |

CID 3500 Pressure Units

Type: Non-Extensible
Version: 20030327

Table CID 3500. Pressure Units

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| UCUM | mm[Hg] | mmHg |
| UCUM | kPa | kPa |

CID 3502 Hemodynamic Resistance Units

Type: Non-Extensible

Version: 20120327

Table CID 3502. Hemodynamic Resistance Units

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| UCUM | [PRU] | P.R.U. |
| UCUM | [wood'U] | Wood U |
| UCUM | dyn.s.cm-5 | dyn.s.cm-5 |

Note

P.R.U. is in units of mm[Hg].s/ml; Wood Units is in mm[Hg].min/l

CID 3503 Indexed Hemodynamic Resistance Units

Type: Non-Extensible

Version: 20120327

Table CID 3503. Indexed Hemodynamic Resistance Units

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|---------------|---------------|
| UCUM | [PRU]/m2 | P.R.U./m2 |
| UCUM | [wood'U]/m2 | Wood U/m2 |
| UCUM | dyn.s.cm-5/m2 | dyn.s.cm-5/m2 |

CID 3510 Catheter Size Units

Type: Extensible

Version: 20030327

Table CID 3510. Catheter Size Units

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| UCUM | [Ch] | french |
| UCUM | mm | mm |

CID 3515 Specimen Collection

Type: Extensible

Version: 20030327

Table CID 3515. Specimen Collection

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------|----------------------|------------------------|
| SRT | P3-02000 | specimen collection | 17636008 | C0200345 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | PA-20110 | collection of blood specimen for laboratory | 82078001 | C0005834 |
| SRT | PA-2011E | blood sampling from extracorporeal blood circuit | 243776001 | C0419352 |

CID 3520 Blood Source Type

Type: Extensible
Version: 20030327

Table CID 3520. Blood Source Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | R-00376 | Systemic Artery Blood | 371952000 | C1299266 |
| SRT | T-C2007 | Mixed Venous Blood | 116176007 | C0440739 |
| SRT | R-0035B | Pulmonary Artery Blood | 371953005 | C1299267 |
| SRT | R-0035E | Pulmonary Vein Blood | 371954004 | C1299268 |

CID 3524 Blood Gas Pressures

Type: Extensible
Version: 20030327

Table CID 3524. Blood Gas Pressures

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--|------------------------|
| LN | 11557-6 | Blood Carbon dioxide partial pressure | C0550246 |
| LN | 2019-8 | Arterial Blood Carbon dioxide partial pressure | C0364151 |
| LN | 2021-4 | Venous Blood Carbon dioxide partial pressure | C0364153 |
| LN | 11556-8 | Blood Oxygen partial pressure | C0550440 |
| LN | 2703-7 | Arterial Oxygen partial pressure | C1145645 |
| LN | 2705-2 | Venous Oxygen partial pressure | C1145647 |
| LN | 19217-9 | Oxygen partial pressure at 50% saturation (P50) | C0802130 |
| LN | 19214-6 | Arterial Oxygen partial pressure at 50% saturation | C1153749 |
| LN | 19216-1 | Venous Oxygen partial pressure at 50% saturation | C1153751 |

CID 3525 Blood Gas Content

Type: Extensible
Version: 20030327

Table CID 3525. Blood Gas Content

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|------------------------|
| LN | 20565-8 | Blood Carbon dioxide content | C0803374 |
| LN | 2026-3 | Arterial Blood Carbon dioxide content | C0364158 |
| LN | 2027-1 | Venous Blood Carbon dioxide content | C0364159 |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|------------------------|
| DCM | 122185 | Blood Oxygen content | |
| LN | 19218-7 | Arterial Oxygen content | C0802131 |
| LN | 19220-3 | Venous Oxygen content | C0802133 |
| LN | 10232-7 | Aortic Root Oxygen content | C0488752 |
| LN | 10245-9 | Pulmonary Artery Main Oxygen content | C0488765 |
| LN | 10247-5 | Pulmonary Wedge Oxygen content | C0488767 |

CID 3526 Blood Gas Saturation

Type: Extensible
Version: 20030327

Table CID 3526. Blood Gas Saturation

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--|------------------------|
| DCM | 122187 | Blood Carbon dioxide saturation | |
| LN | 20564-1 | Blood Oxygen saturation | C0803373 |
| LN | 2708-6 | Arterial Oxygen saturation | C0364851 |
| LN | 2711-0 | Venous Oxygen saturation | C0364854 |
| LN | 2709-4 | Capillary Blood Oxygen Saturation | C0364852 |
| LN | 2710-2 | Capillary Blood Oxygen Saturation, by Oximetry | C0364853 |

CID 3527 Blood Base Excess

Type: Extensible
Version: 20030327

Table CID 3527. Blood Base Excess

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|------------------------|
| LN | 11555-0 | Blood Base Excess | C0550221 |
| LN | 1925-7 | Arterial Blood Base Excess | C0364060 |
| LN | 1927-3 | Venous Blood Base Excess | C0364062 |

CID 3528 Blood pH

Type: Extensible
Version: 20030327

Table CID 3528. Blood pH

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|------------------------|
| LN | 11558-4 | Blood pH | C0550447 |
| LN | 2744-1 | Arterial Blood pH | C0364887 |
| LN | 2746-6 | Venous Blood pH | C0364889 |

CID 3529 Arterial / Venous Content

Type: Extensible
Version: 20030327

Table CID 3529. Arterial / Venous Content

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|------------------------|
| LN | 19218-7 | Arterial Content (FCa) | C0802131 |
| LN | 19220-3 | Venous Content (FCv) | C0802133 |
| DCM | 122188 | Pulmonary Arterial Content (FCpa) | |
| DCM | 122189 | Pulmonary Venous Content (FCpv) | |

CID 3530 Oxygen Administration Actions

Type: Extensible
Version: 20030327

Table CID 3530. Oxygen Administration Actions

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------------|
| DCM | 121161 | Begin oxygen administration |
| DCM | 121162 | End oxygen administration |

CID 3531 Oxygen Administration

Type: Extensible
Version: 20030327

Table CID 3531. Oxygen Administration

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-0034A | Oxygen Administration by nasal cannula | 371907003 | C1299376 |
| SRT | R-00349 | Oxygen Administration by mask | 371908008 | C1299377 |
| DCM | 121163 | Oxygen Administration by ventilator | | |

CID 3550 Circulatory Support Actions

Type: Extensible
Version: 20030327

Table CID 3550. Circulatory Support Actions

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------------|
| DCM | 121157 | Begin Circulatory Support |
| DCM | 121158 | End Circulatory Support |

CID 3551 Ventilation Actions

Type: Extensible
Version: 20030327

Table CID 3551. Ventilation Actions

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------|
| DCM | 121168 | Begin Ventilation |
| DCM | 121169 | End Ventilation |

CID 3552 Pacing Actions

Type: Extensible
Version: 20030327

Table CID 3552. Pacing Actions

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 121166 | Begin Pacing |
| DCM | 121167 | End Pacing |

CID 3553 Circulatory Support

Type: Extensible
Version: 20030327

Table CID 3553. Circulatory Support

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | A-28051 | Intra-Aortic Balloon Pump | 129113006 | C0702122 |
| SRT | R-00303 | External Counter-Pulsation | 371790000 | C1299423 |
| SRT | A-11FCD | Left Ventricular Assist Device | 360066001 | C0181598 |
| SRT | P2-77110 | Extra-corporeal circulation | 182744004 | C0015354 |
| SRT | P1-36858 | Cardiopulmonary bypass | 63697000 | C0007202 |

CID 3554 Ventilation

Type: Extensible
Version: 20030327

Table CID 3554. Ventilation

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | R-002CC | Ambu Bag | 371785003 | C0221812 |
| SRT | R-00359 | Pressure Support Ventilator | 371786002 | C1299420 |
| SRT | R-0038C | Volume Support Ventilator | 371787006 | C1299421 |

CID 3555 Pacing

Type: Extensible
Version: 20030327

Table CID 3555. Pacing

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | P2-35000 | Pacing | 18590009 | C0199640 |
| SRT | R-00315 | pacing with magnet | 371909000 | C1299378 |
| SRT | P2-35200 | atrial pacing | 69158002 | C0199647 |
| SRT | P2-35002 | ventricular pacing | 344994008 | C0199648 |
| SRT | R-002D9 | A-V sequential pacing | 371910005 | C1299379 |
| SRT | P2-35440 | temporary transcutaneous pacing | 59218006 | C0199657 |

CID 3560 Blood Pressure Methods

Type: Extensible
Version: 20030327

Table CID 3560. Blood Pressure Methods

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | R-00318 | Blood pressure cuff method | 371911009 | C1299380 |

CID 3600 Relative Times

Type: **Non-Extensible**
Version: 20030327

Table CID 3600. Relative Times

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-407E0 | Before | 272113006 | C0740175 |
| SRT | R-407E1 | During | 272114000 | C0347985 |
| SRT | R-42517 | After | 288563008 | C0687676 |

CID 3602 Hemodynamic Patient State

Type: Extensible
Version: 20030327

Table CID 3602. Hemodynamic Patient State

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | F-01602 | Baseline state | 128974000 | C1290922 |
| SRT | F-10340 | Supine body position | 40199007 | C0038846 |
| SRT | F-01604 | Resting state | 128975004 | C0679218 |
| SRT | F-01606 | Exercise state | 128976003 | C1290923 |
| SRT | F-01608 | Post-exercise state | 128977007 | C1290924 |

CID 3604 Arterial Lesion Locations

Type: Extensible

Version: 20030327

Table CID 3604. Arterial Lesion Locations

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 3015 "Coronary Arteries"</i> | | |
| <i>Include CID 3606 "Arterial Source Locations"</i> | | |

CID 3606 Arterial Source Locations

Type: Extensible
Version: 20160314

Table CID 3606. Arterial Source Locations

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|
| SRT | T-42500 | Abdominal aorta | 7832008 | C0003484 |
| SRT | T-45530 | anterior communicating artery | 8012006 | C0149562 |
| SRT | T-45730 | anterior spinal artery | 17388009 | C0149603 |
| SRT | T-42000 | Aorta | 15825003 | C0003483 |
| SRT | T-42300 | Aortic Arch | 57034009 | C0003489 |
| SRT | D3-81922 | Aortic fistula | 128551005 | C1290392 |
| SRT | T-41000 | Artery | 51114001 | C0003842 |
| SRT | T-42100 | Ascending aorta | 54247002 | C0003956 |
| SRT | T-47100 | Axillary Artery | 67937003 | C0004455 |
| SRT | A-00203 | Baffle | 128981007 | C1289790 |
| SRT | T-45800 | basilar artery | 59011009 | C0004811 |
| SRT | T-47160 | Brachial artery | 17137000 | C0006087 |
| SRT | T-46010 | brachiocephalic trunk | 12691009 | C0006094 |
| SRT | T-45010 | Carotid Artery | 69105007 | C0007272 |
| SRT | T-45510 | cerebral artery | 88556005 | C0007770 |
| SRT | T-45100 | Common carotid artery | 32062004 | C0162859 |
| SRT | T-43000 | Coronary Artery | 41801008 | C0205042 |
| SRT | T-42400 | Descending aorta | 32672002 | C3163626 |
| SRT | T-45240 | facial artery | 23074001 | C0226109 |
| SRT | T-47400 | Femoral artery | 7657000 | C0015801 |
| SRT | D4-32504 | Fistula coronary to left atrium | 128555001 | C1290487 |
| SRT | D4-32506 | Fistula coronary to left ventricle | 128556000 | C1290488 |
| SRT | R-002ED | Fistula coronary to right atrium | 373095005 | C1298791 |
| SRT | D4-32510 | Fistula coronary to right ventricle | 128558004 | C1290490 |
| SRT | T-47490 | geniculate artery | 128559007 | C0447108 |
| SRT | T-46420 | Hepatic artery | 76015000 | C0019145 |
| SRT | T-46700 | Iliac artery | 10293006 | C0020887 |
| SRT | T-46010 | Innominate artery | 12691009 | C0006094 |
| SRT | T-45300 | internal carotid artery | 86117002 | C0007276 |
| SRT | T-46200 | Internal mammary artery | 69327007 | C0226276 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-45410 | lacrimal artery | 59749000 | C0226171 |
| SRT | T-47651 | lateral plantar artery | 181361000 | C1278959 |
| SRT | T-44400 | Left pulmonary artery | 50408007 | C0226069 |
| SRT | T-45230 | lingual artery | 113264009 | C0226104 |
| SRT | T-46960 | lumbar artery | 34635009 | C0226408 |
| SRT | T-46500 | mesenteric artery | 86570000 | C0025465 |
| SRT | T-47661 | medial plantar artery | 181360004 | C1278958 |
| SRT | T-F7001 | Neo-aorta (primitive aorta) | 14944004 | C0231136 |
| SRT | T-F7040 | Neonatal pulmonary artery (primitive PA) | 91707000 | C0231157 |
| SRT | T-45250 | occipital artery | 31145008 | C0226117 |
| SRT | T-45400 | ophthalmic artery | 53549008 | C0029078 |
| SRT | D4-32012 | patent ductus arteriosus | 83330001 | C0013274 |
| SRT | T-47630 | peroneal artery | 8821006 | C0226476 |
| SRT | T-47500 | popliteal artery | 43899006 | C0032649 |
| SRT | T-45320 | posterior communicating artery | 43119007 | C0149559 |
| SRT | D3-4020B | Pulmonary arteriovenous fistula | 253639004 | C0345042 |
| SRT | T-44000 | Pulmonary artery | 81040000 | C0034052 |
| SRT | D4-33142 | Pulmonary artery conduit | 128584005 | C1290491 |
| SRT | R-00360 | Pulmonary vein wedge | 371829003 | C1299456 |
| SRT | T-47300 | radial artery | 45631007 | C0162857 |
| SRT | T-46600 | Renal artery | 2841007 | C0035065 |
| SRT | T-47410 | Right femoral artery | 69833005 | C0226447 |
| SRT | T-44200 | Right pulmonary artery | 78480002 | C0226054 |
| SRT | T-46100 | Subclavian Artery | 36765005 | C0038530 |
| SRT | T-45270 | superficial temporal artery | 15672000 | C0226130 |
| SRT | T-45210 | superior thyroid artery | 72021004 | C0226093 |
| SRT | T-44007 | Systemic collateral Artery to lung | 128589000 | C0345096 |
| SRT | T-42070 | Thoracic aorta | 113262008 | C1522460 |
| SRT | T-4704C | tibial artery | 181351007 | C0085427 |
| SRT | D4-31400 | Truncus Arteriosus Communis | 61959006 | C0041207 |
| SRT | T-F1810 | Umbilical artery | 50536004 | C0041632 |
| SRT | T-45700 | Vertebral artery | 85234005 | C0042559 |

CID 3607 Venous Source Locations

Type: Extensible
Version: 20160314

Table CID 3607. Venous Source Locations

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | T-48503 | Anomalous pulmonary vein | 128585006 | C0265914 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | T-49215 | Antecubital Vein | 128553008 | C1276271 |
| SRT | T-49110 | Axillary vein | 68705008 | C0004456 |
| SRT | T-48340 | Azygos vein | 72107004 | C0004526 |
| SRT | T-49230 | Basilic vein | 19715009 | C0226801 |
| SRT | T-49424 | Boyd perforating vein | 128548003 | C1267522 |
| SRT | T-49350 | Brachial vein | 20115005 | C0226812 |
| SRT | T-48003 | Central venous system | 34340008 | C0226503 |
| SRT | T-49240 | cephalic vein | 20699002 | C0226802 |
| SRT | T-49429 | Dodd perforating vein | 128554002 | C1267525 |
| SRT | T-49410 | Femoral vein | 83419000 | C0015809 |
| SRT | T-48820 | gastric vein | 110568007 | C0750610 |
| SRT | T-48720 | hepatic vein | 8993003 | C0019155 |
| SRT | T-4942A | Hunterian perforating vein | 128560002 | C1267526 |
| SRT | T-48710 | Inferior Vena cava | 64131007 | C0042458 |
| SRT | T-48620 | Innominate vein | 8887007 | C0006095 |
| SRT | T-48170 | Internal jugular vein | 12123001 | C0226550 |
| SRT | T-4884A | mesenteric vein | 128583004 | C0025473 |
| SRT | T-48810 | portal vein | 32764006 | C0032718 |
| SRT | T-49535 | posterior medial tributary | 128569001 | C1267527 |
| SRT | T-48581 | Pulmonary vein | 122972007 | C0034090 |
| SRT | D4-33512 | Pulmonary vein confluence | 128566008 | C1290492 |
| SRT | T-48740 | Renal vein | 56400007 | C0035092 |
| SRT | T-D930A | Saphenofemoral junction | 128587003 | C0447132 |
| SRT | T-49530 | Saphenous vein | 60734001 | C0036186 |
| SRT | T-48890 | splenic vein | 35819009 | C0038001 |
| SRT | T-48330 | Subclavian vein | 9454009 | C0038532 |
| SRT | T-48610 | Superior vena cava | 48345005 | C0042459 |
| SRT | T-48817 | Umbilical vein | 61660003 | C0226734 |
| SRT | T-48000 | Vein | 29092000 | C0042449 |
| SRT | R-003AA | Vena anonyma | 371951007 | C1299265 |

Note

In a prior version of this Context Group the code T-48500 rather than T-48581 was defined for the concept Pulmonary Vein; this was inconsistent with the DICOM approach of selecting the "structure of" rather than "entire" concept. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.

CID 3608 Atrial Source Locations

Type: Extensible
Version: 20160314

Table CID 3608. Atrial Source Locations

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | A-00203 | Baffle | 128981007 | C1289790 |
| SRT | D4-31005 | Common atrium | 253276007 | C0392482 |
| SRT | T-32330 | Coronary sinus | 31162003 | C0225863 |
| SRT | D4-31052 | Juxtaposed appendage | 128563000 | C1290478 |
| SRT | T-32300 | Left atrium | 82471001 | C0225860 |
| SRT | G-DB27 | Pulmonary artery wedge | 128449009 | C1264742 |
| SRT | G-DB26 | Pulmonary capillary wedge | 128448001 | C1264741 |
| SRT | D4-33514 | Pulmonary venous atrium | 128567004 | C1290493 |
| SRT | T-32190 | Pulmonary chamber in cor triatriatum | 128586007 | C0225841 |
| SRT | T-32200 | Right Atrium | 73829009 | C0225844 |
| SRT | D4-33516 | Systemic venous atrium | 128568009 | C1290494 |

CID 3609 Ventricular Source Locations

Type: Extensible
Version: ~~20030327~~20170413

Table CID 3609. Ventricular Source Locations

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|---------------------|--|----------------------|------------------------|
| SRT | T-32400 | Common ventricle | 21814001 | C0018827 |
| SRT | T-32600 | Left ventricle | 87878005 | C0225897 |
| SRT | T-32602 | Left ventricle apex | 128564006 | C0580781 |
| SRT | T-32640 | Left ventricle inflow | 70238003 | C0225911 |
| SRT | D4-31022 | Left ventricle outflow chamber | 128570000 | C1290476 |
| SRT | T-32650 | Left ventricle outflow tract | 13418002 | C0225912 |
| SRT | T-32500 | Right ventricle | 53085002 | C0225883 |
| SRT | T-32502 | Right ventricle apex | 128565007 | C0445242 |
| SRT | T-32540 | Right ventricle inflow | 8017000 | C0225891 |
| SRT | D4-31032 | Right ventricle outflow chamber | 128572008 | C1290477 |
| SRT | T-32550 | Right ventricle outflow tract | 44627009 | C0225892 |

CID 3610 Gradient Source Locations

Type: Extensible
Version: 20030327

Table CID 3610. Gradient Source Locations

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | T-35300 | Mitral Valve | 91134007 | C0026264 |
| SRT | T-35400 | Aortic Valve | 34202007 | C0003501 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | T-35100 | Tricuspid valve | 46030003 | C0040960 |
| SRT | T-35200 | Pulmonary valve | 39057004 | C0034086 |
| SRT | T-44000 | Pulmonary artery | 81040000 | C0034052 |
| SRT | T-32650 | Left ventricle outflow tract | 13418002 | C0225912 |
| SRT | T-32550 | Right ventricle outflow tract | 44627009 | C0225892 |
| SRT | D4-31150 | Ventricular Septal defect | 30288003 | C0018818 |
| SRT | D4-31220 | Atrial Septal defect | 70142008 | C0018817 |
| SRT | D4-32014 | Coarctation of aorta | 7305005 | C0003492 |

CID 3611 Pressure Measurements

Type: Extensible
Version: 20050322

Table CID 3611. Pressure Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| DCM | 109016 | A wave peak pressure | | |
| DCM | 122196 | C wave pressure | | |
| LN | 8462-4 | Intravascular diastolic blood pressure | | C0488052 |
| SRT | F-00E22 | Average diastolic blood pressure | 314453003 | C1282163 |
| SRT | F-00E1F | Minimum diastolic blood pressure | 314451001 | C1282161 |
| DCM | 122191 | Ventricular End Diastolic pressure | | |
| DCM | 122197 | Gradient pressure, average | | |
| DCM | 122198 | Gradient pressure, peak | | |
| SRT | F-31150 | Mean blood pressure | 6797001 | C0428886 |
| DCM | 122199 | Pressure at dp/dt max | | |
| LN | 8480-6 | Intravascular Systolic Blood pressure | | C0488055 |
| SRT | F-00E14 | Average systolic blood pressure | 314440001 | C1282151 |
| SRT | F-00E11 | Maximum systolic blood pressure | 314439003 | C1282150 |
| DCM | 109034 | V wave peak pressure | | |
| DCM | 122208 | x-descent pressure | | |
| DCM | 122209 | y-descent pressure | | |
| DCM | 122210 | z-point pressure | | |

CID 3612 Blood Velocity Measurements

Type: Extensible
Version: 20030327

Table CID 3612. Blood Velocity Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------|
| DCM | 122201 | Diastolic blood velocity, mean |
| DCM | 122202 | Diastolic blood velocity, peak |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------|
| DCM | 122203 | Systolic blood velocity, mean |
| DCM | 122204 | Systolic blood velocity, peak |
| DCM | 122205 | Blood velocity, mean |
| DCM | 122206 | Blood velocity, minimum |
| DCM | 122207 | Blood velocity, peak |

CID 3613 Hemodynamic Time Measurements

Type: Extensible
Version: 20030327

Table CID 3613. Hemodynamic Time Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------------------|
| DCM | 122182 | R-R interval |
| DCM | 109072 | Tau |
| DCM | 122211 | Left Ventricular ejection time |
| DCM | 122212 | Left Ventricular filling time |
| DCM | 122213 | Right Ventricular ejection time |
| DCM | 122214 | Right Ventricular filling time |
| DCM | 109071 | Indicator mean transit time |

CID 3614 Valve Areas, Non-mitral

Type: Extensible
Version: 20030327

Table CID 3614. Valve Areas, Non-mitral

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | F-0231F | Aortic Valve Area | 251011009 | C0428817 |
| SRT | F-02321 | Pulmonic Valve Area | 251013007 | C0428819 |
| SRT | F-02322 | Tricuspid Valve Area | 251014001 | C0428820 |
| DCM | 122160 | Derived Non-Valve Area | | |

CID 3615 Valve Areas

Type: Extensible
Version: 20030327

Table CID 3615. Valve Areas

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|-------------------|----------------------|------------------------|
| Include CID 3614 "Valve Areas, Non-mitral" | | | | |
| SRT | F-02320 | Mitral Valve Area | 251012002 | C0221099 |

CID 3616 Hemodynamic Period Measurements

Type: Extensible

Version: 20030327

Table CID 3616. Hemodynamic Period Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | R-002D2 | Aortic Systolic Ejection Period (SEPa) | 371850007 | C1269855 |
| SRT | R-0035C | Pulmonary Systolic Ejection Period (SEPP) | 371848004 | C1269854 |
| SRT | R-0032C | Mitral Diastolic Filling Period (DFPm) | 371849007 | C1299325 |
| SRT | R-003A9 | Tricuspid Diastolic Filling Period (DFPt) | 371847009 | C1299324 |
| SRT | R-002F5 | Derived Period, Non-Valve | 371853009 | C1299328 |

CID 3617 Valve FlowsType: Extensible
Version: 20030327**Table CID 3617. Valve Flows**

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | R-002D3 | Aortic Valve Flow | 371845001 | C1299322 |
| SRT | R-0032D | Mitral Valve Flow | 371837006 | C1299464 |
| SRT | R-0035D | Pulmonary Valve Flow | 371846000 | C1299323 |
| SRT | R-00385 | Tricuspid Valve Flow | 371840006 | C1299467 |
| SRT | R-00394 | Derived Flow, Non-Valve | 371839009 | C1299466 |

CID 3618 Hemodynamic FlowsType: Extensible
Version: 20030327**Table CID 3618. Hemodynamic Flows**

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------|
| DCM | 122161 | Pulmonary Flow |
| DCM | 122162 | Systemic Flow |

CID 3619 Hemodynamic Resistance MeasurementsType: Extensible
Version: 20160314**Table CID 3619. Hemodynamic Resistance Measurements**

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | F-03E86 | Pulmonary Vascular Resistance | 276901002 | C0456261 |
| SRT | F-02B35 | Systemic Vascular Resistance | 386530009 | C1258192 |
| DCM | 122215 | Total Pulmonary Resistance | | |
| DCM | 122216 | Total Vascular Resistance | | |

CID 3620 Hemodynamic Ratios

Type: Extensible
Version: 20030327

Table CID 3620. Hemodynamic Ratios

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|-----------------------------------|----------------------|------------------------|
| LN | 8581-1 | Tibial/brachial index | | C0488220 |
| SRT | F-0238B | Pulmonary/Systemic Flow Ratio | 251050008 | C0428854 |
| DCM | 122217 | Coronary Flow reserve | | |
| DCM | 122218 | Diastolic/Systolic velocity ratio | | |
| DCM | 122219 | Hyperemic ratio | | |
| SRT | F-031A2 | Pulsatility Index | 252068008 | C0429863 |
| DCM | 122220 | Hemodynamic Resistance Index | | |
| Include CID 3621 "Fractional Flow Reserve" | | | | |

CID 3621 Fractional Flow Reserve

Type: Extensible
Version: 20030327

Table CID 3621. Fractional Flow Reserve

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-00307 | Fractional flow reserve | 371842003 | C1299469 |
| SRT | R-00308 | Fractional Flow Reserve using intracoronary bolus | 371835003 | C1299462 |
| SRT | R-00309 | Fractional Flow Reserve using intravenous infusion | 371841005 | C1299468 |

CID 3627 Measurement Type

Type: Extensible
Version: 20060613

Table CID 3627. Measurement Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | R-002E1 | Best value | 371912002 | C1299381 |
| SRT | R-00317 | Mean | 373098007 | C1298794 |
| SRT | R-00319 | Median | 373099004 | C1298795 |
| SRT | R-0032E | Mode | 373100007 | C1298796 |
| SRT | R-00355 | Point source measurement | 371913007 | C1299382 |
| SRT | R-00353 | Peak to peak | 371914001 | C1299383 |
| SRT | R-41D27 | Visual estimation | 258083009 | C0444684 |
| SRT | R-10260 | Estimated | 414135002 | C0750572 |
| SRT | R-41D2D | Calculated | 258090004 | C0444686 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-41D41 | Measured | 258104002 | C0444706 |

CID 3628 Cardiac Output Methods

Type: Extensible
Version: 20030327

Table CID 3628. Cardiac Output Methods

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | R-002E5 | Thermal Bath | 371838001 | C1299465 |
| SRT | R-002E7 | Thermal Inline | 371843008 | C1299320 |
| SRT | R-002E6 | Dye Dilution | 373104003 | C1298799 |

CID 3629 Procedure Intent

This Context Group specifies the intent for a procedure or a procedure step, depending on the context of invocation. The intent for a procedure step may be different than that of the procedure in which it occurs.

Note

- For example, a surgical biopsy procedure may have "Diagnostic Intent", while the imaging procedure step within that procedure may have "Guidance Intent".
- Collection of specimens is generally "Diagnostic Intent"; "Forensic Intent" is typically used for autopsies; "Palliative Intent" and "Adjuvant Intent" may apply to certain radiotherapy procedures.
- In SNOMED-CT, "Staging Intent" is a subsidiary concept (refinement) of "Diagnostic Intent". The following are subsidiary concepts of "Therapeutic Intent": Adjunct, Adjuvant, Curative, Neo-adjuvant, Prophylactic, and Supportive. Prophylactic is also a subsidiary concept of Preventive intent.

Type: Extensible
Version: 20160314

Table CID 3629. Procedure Intent

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | R-408C3 | Diagnostic Intent | 261004008 | C0348026 |
| SRT | R-41531 | Therapeutic Intent | 262202000 | C0302350 |
| SRT | R-002E9 | Combined Diagnostic and Therapeutic Procedure | 371931008 | C1299398 |
| DCM | 113680 | Quality Control Intent | | |
| SRT | R-408F2 | Staging intent | 373825000 | C1276306 |
| SRT | R-40641 | Guidance Intent | 363675004 | C1285529 |
| SRT | R-40644 | Forensic Intent | 447295008 | C2960804 |
| SRT | R-42453 | Screening Intent | 360156006 | C1305399 |
| SRT | R-40644 | Palliative Intent | 447295008 | C2960804 |
| SRT | R-41564 | Adjunct intent | 421974008 | C1719882 |
| SRT | R-41561 | Adjuvant intent | 373846009 | C1298675 |
| SRT | R-41560 | Curative intent | 373808002 | C1276305 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------|----------------------|------------------------|
| SRT | R-41562 | Neo-adjuvant intent | 373847000 | C1298676 |
| SRT | R-41563 | Supportive intent | 399707004 | C1302630 |
| SRT | P0-02179 | Preventive intent | 129428001 | C1456501 |
| SRT | P0-021FD | Prophylactic intent | 360271000 | C0199176 |

CID 3630 Cardiovascular Anatomic Locations

Type: Extensible
Version: 20030327

Table CID 3630. Cardiovascular Anatomic Locations

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 3606 "Arterial Source Locations" | | |
| Include CID 3607 "Venous Source Locations" | | |
| Include CID 3608 "Atrial Source Locations" | | |
| Include CID 3609 "Ventricular Source Locations" | | |
| Include CID 3610 "Gradient Source Locations" | | |

CID 3640 Hypertension

Type: Extensible
Version: 20040920

Table CID 3640. Hypertension

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | D3-40300 | Pulmonary hypertension | 70995007 | C0020542 |
| SRT | D3-02000 | Systemic arterial hypertension | 38341003 | C0020538 |

CID 3641 Hemodynamic Assessments

Type: Extensible
Version: 20160314

Table CID 3641. Hemodynamic Assessments

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | F-03E0D | Left Ventricular Systolic Pressure | 276780008 | C0456189 |
| SRT | F-03E0E | Left Ventricular End-Diastolic Pressure | 276781007 | C0456190 |
| SRT | F-0212C | Pulmonary Artery Pressure | 250767002 | C0428642 |
| SRT | F-03E86 | Pulmonary Vascular Resistance | 276901002 | C0456261 |
| SRT | F-31146 | Pulmonary Capillary Wedge Pressure | 118433006 | C0086879 |
| SRT | F-03DFE | Right Ventricular Systolic Pressure | 276772001 | C0456181 |
| SRT | F-03E02 | Right Ventricular End-Diastolic Pressure | 276774000 | C0456183 |
| SRT | F-03DE9 | Right Atrial Pressure | 276755008 | C0456165 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------|----------------------|------------------------|
| SRT | F-39790 | Vascular Resistance | 88619007 | C0042380 |
| SRT | F-008ED | Diastolic Pressure | 271650006 | C0428883 |

CID 3642 Degree Findings

Type: Extensible
Version: 20040920

Table CID 3642. Degree Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | G-A316 | Decreased | 1250004 | C0205216 |
| SRT | G-A373 | Elevated | 75540009 | C3163633 |
| SRT | G-A37A | Severely Elevated | 260360000 | C0442804 |
| SRT | R-40765 | Normal Range | 260395002 | C0086715 |

CID 3651 Hemodynamic Measurement Phase

This context group is a subset of CID 3250 "Catheterization Procedure Phase".

Type: Extensible
Version: 20160314

Table CID 3651. Hemodynamic Measurement Phase

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | G-7293 | Cardiac catheterization baseline phase | 128955008 | C1292432 |
| SRT | G-729B | Cardiac catheterization post contrast phase | 129083002 | C1292440 |
| SRT | G-7298 | Cardiac catheterization post-intervention phase | 128960007 | C1292437 |
| SRT | R-002E4 | Cardiac catheterization test/challenge phase | 373105002 | C1300063 |
| SRT | R-002E3 | Cardiac catheterization gradient assessment phase | 371874005 | C1300078 |
| SRT | P2-71317 | Drug Infusion Challenge | 133882006 | C1297891 |
| SRT | P2-71310 | Exercise challenge | 128967005 | C1293901 |
| SRT | F-01604 | Resting State | 128975004 | C0679218 |

CID 3663 Body Surface Area Equations

Type: Extensible
Version: 20100609

Table CID 3663. Body Surface Area Equations

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 122240 | $BSA = 0.003207 * WT^{(0.7285 - 0.0188 \log(WT))} * HT^{0.3}$ |
| DCM | 122241 | $BSA = 0.007184 * WT^{0.425} * HT^{0.725}$ |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 122242 | $BSA = 0.0235 * WT^{0.51456} * HT_{cm}^{0.42246}$ |
| DCM | 122243 | $BSA = 0.024265 * WT^{0.5378} * HT_{cm}^{0.3964}$ |
| DCM | 122244 | $BSA = (HT * WT/36)^{0.5}$ |
| DCM | 122245 | $BSA = 1321 + 0.3433 * WT$ |
| DCM | 122246 | $BSA = 0.0004688 * WT^{(0.8168 - 0.0154 * \log(WT))}$ |
| DCM | 122266 | $BSA = 0.007358 * WT^{0.425} * HT^{0.725}$ |
| DCM | 122267 | $BSA = 0.010265 * WT^{0.423} * HT^{0.651}$ |
| DCM | 122268 | $BSA = 0.008883 * WT^{0.444} * HT^{0.663}$ |
| DCM | 122269 | $BSA = 0.038189 * WT^{0.423} * HT^{0.362}$ |
| DCM | 122270 | $BSA = 0.009568 * WT^{0.473} * HT^{0.655}$ |

CID 3664 Oxygen Consumption Equations and Tables

Type: Extensible
Version: 20030327

Table CID 3664. Oxygen Consumption Equations and Tables

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 122247 | $VO2_{male} = BSA (138.1 - 11.49 * \log_e(\text{age}) + 0.378 * HR_f)$ |
| DCM | 122248 | $VO2_{female} = BSA (138.1 - 17.04 * \log_e(\text{age}) + 0.378 * HR_f)$ |
| DCM | 122249 | $VO2 = V_{eSTPD} * 10 * (FIO_2 - FE_{O_2})$ |
| DCM | 122250 | $VO2 = 152 * BSA$ |
| DCM | 122251 | $VO2 = 175 * BSA$ |
| DCM | 122252 | $VO2 = 176 * BSA$ |
| DCM | 122253 | Robertson & Reid table |
| DCM | 122254 | Fleisch table |
| DCM | 122255 | Boothby table |

CID 3666 P50 Equations

Type: Extensible
Version: 20030327

Table CID 3666. P50 Equations

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------------|
| DCM | 122256 | if (prem age < 3days) P50 = 19.9 |
| DCM | 122257 | if (age < 1day) P50 = 21.6 |
| DCM | 122258 | if (age < 30day) P50 = 24.6 |
| DCM | 122259 | if (age < 18y) P50 = 27.2 |
| DCM | 122260 | if (age < 40y) P50 = 27.4 |
| DCM | 122261 | if (age > 60y) P50 = 29.3 |

CID 3667 Framingham Scores

Type: Extensible
Version: 20030327

Table CID 3667. Framingham Scores

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------------|
| DCM | 122230 | 10 Year CHD Risk |
| DCM | 122231 | Comparative Average 10 Year CHD Risk |
| DCM | 122232 | Comparative Low 10 Year CHD Risk |

CID 3668 Framingham Tables

Type: Extensible
Version: 20030327

Table CID 3668. Framingham Tables

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 122233 | LDL Cholesterol Score Sheet for Men |
| DCM | 122234 | LDL Cholesterol Score Sheet for Women |
| DCM | 122235 | Total Cholesterol Score Sheet for Men |
| DCM | 122236 | Total Cholesterol Score Sheet for Women |

CID 3670 ECG Procedure Types

Type: Extensible
Version: 20110330

Table CID 3670. ECG Procedure Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | P2-3120A | 12-Lead ECG | 268400002 | C0430456 |
| SRT | P2-3120E | 15-Lead ECG | 429163003 | C1998169 |
| SRT | P2-3120C | 18-Lead ECG | 425808002 | C1961003 |

CID 3671 Reason for ECG Exam

Type: Extensible
Version: 20030327

Table CID 3671. Reason for ECG Exam

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | R-00300 | Emergency procedure | 373110003 | C1298802 |
| SRT | P1-00410 | Pre-Surgery testing | 110467000 | C1293092 |
| SRT | R-00348 | Outpatient procedure | 371883000 | C1299353 |
| SRT | R-0035A | Procedure in Cardiac Care Unit | 373111004 | C1298803 |
| SRT | P2-10700 | Emergency Department patient visit | 4525004 | C0586082 |
| SRT | R-00302 | Evaluation of murmur | 373112006 | C1298804 |
| SRT | R-0036E | Routine procedure | 373113001 | C1298805 |

CID 3672 Pacemakers

This Context Group includes the full set of codes for types of pacemakers specified in the NASPE/BPEG Generic Pacemaker Code (NBG). The Coding Scheme Designator (0008,0102) shall be NBG.

Note

1. A prior version of this context group used codes from the SCP-ECG vocabulary.
2. Further information at <http://www.hrsonline.org/Practice-Guidance/Clinical-Guidelines-Documents/2002-The-Revised-NASPE-BPEG-Generic-Code-for-Antibradycardia-AdaptiveRate-and-Multisite-Pacing>. For reference, the scheme is reproduced here:

| Code Position | 1 - Chamber(s) paced | 2 - Chamber(s) sensed | 3 - Response to sensing | 4 - Rate modulation | 5- Multisite pacing |
|---------------|--|--|--|---------------------------------|---|
| Code values | O = None A = Atrium V = Ventricle D = Dual (A+V) S = Single(A or V - Mfr designation only) | O = None A = Atrium V = Ventricle D = Dual (A+V) S = Single(A or V - Mfr designation only) | O = None T = Triggered I = Inhibited D = Dual (T+I) | O = None R = Rate modulation | O = None A = Atrium V = Ventricle D = Dual (A+V) |

CID 3673 Diagnosis (Retired)

This Context Group is retired. See PS3.16-2009.

CID 3675 Other Filters (Retired)

This Context Group is retired. See PS3.16-2009.

CID 3676 Lead Measurement Technique

Type: Extensible
Version: 20030327

Table CID 3676. Lead Measurement Technique

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | R-002DA | Averaged | 371921001 | C1299390 |
| SRT | R-0036D | Routine | 373115008 | C1298806 |
| SRT | R-00319 | Median | 373099004 | C1298795 |
| SRT | R-0036A | Representative | 371916004 | C1299385 |
| SRT | R-00373 | Single Beats | 371871002 | C1299345 |

CID 3677 Summary Codes ECG

Type: Extensible
Version: 20111028

Table CID 3677. Summary Codes ECG

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | F-000B7 | Normal ECG | 164854000 | C0522054 |
| SRT | F-38002 | Abnormal ECG | 102594003 | C0522055 |
| SRT | F-38056 | Borderline Normal ECG | 251135002 | C0428951 |
| SRT | F-38095 | ECG Equivocal | 370359005 | C0438155 |
| DCM | 122753 | Non-diagnostic ECG | | |

Note

A prior version of this context group used codes from the SCP-ECG vocabulary.

CID 3678 QT Correction Algorithms

Type: Extensible
Version: 20081029

Table CID 3678. QT Correction Algorithms

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------|
| DCM | 122730 | Bazett QT Correction Algorithm |
| DCM | 122731 | Hodges QT Correction Algorithm |
| DCM | 122732 | Fridericia QTc Algorithm |
| DCM | 122733 | Framingham QTc Algorithm |

Note

A prior version of this context group used codes from the SCP-ECG vocabulary.

CID 3679 ECG Morphology Descriptions (Retired)

This Context Group is retired. See PS3.16-2009.

CID 3680 ECG Lead Noise Descriptions

This Context Group comprises the ECG noise annotations of ISO/IEEE 11073-10102. The terms included in the table below may not constitute the complete list; see the ISO/IEEE Standard.

Note

Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10102 available through <http://standards.ieee.org/>.

Type: Extensible
Version: 20110330

Table CID 3680. ECG Lead Noise Descriptions

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|----------------|--|
| MDC | 10:11200 | No noise | MDC_ECG_NOISE_CLEAN |
| MDC | 10:11216 | Moderate noise | MDC_ECG_NOISE_MODERATE |
| MDC | 10:11232 | Severe noise | MDC_ECG_NOISE_SEVERE |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|--------------|--|
| MDC | 10:11248 | No signal | MDC_ECG_NOISE_NOSIGNAL |

A prior version of this context group used codes from the SCP-ECG vocabulary.

CID 3681 ECG Lead Noise Modifiers (Retired)

This Context Group is retired. See PS3.16-2009.

CID 3682 Probability (Retired)

This Context Group is retired. See PS3.16-2009.

CID 3683 Modifiers (Retired)

This Context Group is retired. See PS3.16-2009.

CID 3684 Trend (Retired)

This Context Group is retired. See PS3.16-2009.

CID 3685 Conjunctive Terms (Retired)

This Context Group is retired. See PS3.16-2009.

CID 3686 ECG Interpretive Statements (Retired)

This Context Group is retired. See PS3.16-2009.

CID 3687 Electrophysiology Waveform Durations

This Context Group consists of the per-lead terms under the hierarchy of Reference ID MDC_ECG_TIME_PD in the ISO/IEEE 11073-10102 nomenclature.

The base terms from that hierarchy are included in the table below for reference. The per-lead base terms are pre-coordinated with concept discriminators for specific leads, and the code values for those pre-coordinated terms are arithmetically derived from the code values of the base terms. For the complete current list of terms and discriminator values, see the ISO/IEEE Standard. All pre-coordinated terms (measurements plus discriminators) within the identified hierarchy are part of this Context Group.

Note

1. A prior version of this context group used codes from the SCP-ECG coding system.
2. Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10102 available through <http://standards.ieee.org/>.

Type: Extensible
Version: 20110330

Table CID 3687. Electrophysiology Waveform Durations

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|----------------------------------|--|
| MDC | 2:6656 | P duration, per lead | MDC_ECG_TIME_PD_P |
| MDC | 2:4608 | P onset to P1 duration, per lead | MDC_ECG_TIME_PD_P1 |
| MDC | 2:4864 | P onset to P2 duration, per lead | MDC_ECG_TIME_PD_P2 |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|--|--|
| MDC | 2:5120 | P onset to P3 duration, per lead | MDC_ECG_TIME_PD_P3 |
| MDC | 2:7168 | P offset to QRS onset duration, per lead | MDC_ECG_TIME_PD_PR |
| MDC | 2:7680 | Q duration, per lead | MDC_ECG_TIME_PD_Q |
| MDC | 2:7936 | QRS duration, per lead | MDC_ECG_TIME_PD_QRS |
| MDC | 2:8192 | QT duration, per lead | MDC_ECG_TIME_PD_QT |
| MDC | 2:11264 | R1 duration, per lead | MDC_ECG_TIME_PD_R_1 |
| MDC | 2:11520 | R2 duration, per lead | MDC_ECG_TIME_PD_R_2 |
| MDC | 2:11776 | R3 duration, per lead | MDC_ECG_TIME_PD_R_3 |
| MDC | 2:12032 | S1 duration, per lead | MDC_ECG_TIME_PD_S_1 |
| MDC | 2:12288 | S2 duration, per lead | MDC_ECG_TIME_PD_S_2 |
| MDC | 2:12544 | S3 duration, per lead | MDC_ECG_TIME_PD_S_3 |
| MDC | 2:11008 | Ventricular activation time, per lead | MDC_ECG_TIME_PD_VENT_ACTIV |
| MDC | 2:32768 | PP time period, per lead | MDC_ECG_TIME_PD_PP |
| MDC | 2:33024 | RR time period, per lead | MDC_ECG_TIME_PD_RR |
| MDC | 2:33280 | PQ time period, per lead | MDC_ECG_TIME_PD_PQ |
| MDC | 2:33536 | PQ segment time period, per lead | MDC_ECG_TIME_PD_PQ_SEG |
| MDC | 2:34560 | QTU time period, per lead | MDC_ECG_TIME_PD_QTU |

CID 3688 Electrophysiology Waveform Voltages

This Context Group consists of the codes of the hierarchies under Reference IDs MDC_ECG_ELEC_POTL and MDC_ECG_AMPL of the ISO/IEEE 11073-10102 nomenclature.

The base terms from those hierarchies are included in the table below for reference. The per lead base terms are pre-coordinated with concept discriminators for specific leads, and the code values for those pre-coordinated terms are arithmetically derived from the code values of the base terms. For the complete current list of terms and discriminator values, see the ISO/IEEE Standard. All pre-coordinated terms (measurements plus discriminators) within the identified hierarchies are part of this Context Group.

Note

1. A prior version of this context group used codes from the SCP-ECG coding system.
2. Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10102 available through <http://standards.ieee.org/>.

Type: Extensible
Version: 20110330

Table CID 3688. Electrophysiology Waveform Voltages

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|--|--|
| MDC | 2:1024 | J point Amplitude, per lead | MDC_ECG_AMPL_J |
| MDC | 2:14848 | Amplitude at 20 ms into ST segment, per lead | MDC_ECG_ELEC_POTL_ST_20 |
| MDC | 2:15104 | Amplitude at 40 ms into ST segment, per lead | MDC_ECG_ELEC_POTL_ST_40 |
| MDC | 2:14336 | Amplitude at 60 ms into ST segment, per lead | MDC_ECG_ELEC_POTL_ST_60 |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|--|--|
| MDC | 2:14592 | Amplitude at 80 ms into ST segment, per lead | MDC_ECG_ELEC_POTL_ST_80 |
| MDC | 2:1280 | P maximum amplitude, per lead | MDC_ECG_AMPL_P_MAX |
| MDC | 2:1536 | P minimum amplitude, per lead | MDC_ECG_AMPL_P_MIN |
| MDC | 2:3072 | P3 amplitude, per lead | MDC_ECG_AMPL_P3 |
| MDC | 2:1792 | Q amplitude, per lead | MDC_ECG_AMPL_Q |
| MDC | 2:2048 | R amplitude, per lead | MDC_ECG_AMPL_R |
| MDC | 2:12800 | R1 amplitude, per lead | MDC_ECG_ELEC_POTL_R_1 |
| MDC | 2:13056 | R2 amplitude, per lead | MDC_ECG_ELEC_POTL_R_2 |
| MDC | 2:13312 | R3 amplitude, per lead | MDC_ECG_ELEC_POTL_R_3 |
| MDC | 2:2304 | S amplitude, per lead | MDC_ECG_AMPL_S |
| MDC | 2:13568 | S1 amplitude, per lead | MDC_ECG_ELEC_POTL_S_1 |
| MDC | 2:13824 | S2 amplitude, per lead | MDC_ECG_ELEC_POTL_S_2 |
| MDC | 2:14080 | S3 amplitude, per lead | MDC_ECG_ELEC_POTL_S_3 |
| MDC | 2:2560 | T maximum amplitude, per lead | MDC_ECG_AMPL_T_MAX |
| MDC | 2:2816 | T minimum amplitude, per lead | MDC_ECG_AMPL_T_MIN |
| MDC | 2:768 | ST amplitude, per lead | MDC_ECG_AMPL_ST |

CID 3689 ECG Global Waveform Durations

This Context Group consists of the global terms under the hierarchy of Reference ID MDC_ECG_TIME_PD in the ISO/IEEE 11073-10102 nomenclature.

The base terms from that hierarchy are included in the table below for reference. The base terms may be pre-coordinated with concept discriminators, and the code values for those pre-coordinated terms are arithmetically derived from the code values of the base terms. For the complete current list of terms and discriminator values, see the ISO/IEEE Standard. All pre-coordinated terms (measurements plus discriminators) within the identified hierarchy are part of this Context Group.

Note

Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10102 available through <http://standards.ieee.org/>.

Type: Extensible
Version: 20110330

Table CID 3689. ECG Global Waveform Durations

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|--------------------------------|--|
| MDC | 2:16184 | P duration, global | MDC_ECG_TIME_PD_P_GL |
| MDC | 2:16140 | PP time period, global | MDC_ECG_TIME_PD_PP_GL |
| MDC | 2:16144 | PQ time period, global | MDC_ECG_TIME_PD_PQ_GL |
| MDC | 2:15872 | PR time period, global | MDC_ECG_TIME_PD_PR_GL |
| MDC | 2:16148 | PQ segment time period, global | MDC_ECG_TIME_PD_PQ_SEG_GL |
| MDC | 2:16156 | QRS duration, global | MDC_ECG_TIME_PD_QRS_GL |
| MDC | 2:16160 | QT duration, global | MDC_ECG_TIME_PD_QT_GL |
| MDC | 2:16000 | RR time period, global | MDC_ECG_TIME_PD_RR_GL |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|-------------------------|--|
| MDC | 2:16004 | QTU time period, global | MDC_ECG_TIME_PD_QTU_GL |

CID 3690 ECG Control Variables Numeric

This Context Group includes the ECG control variables specified in the ISO/IEEE 11073-10102 nomenclature that take numeric values. The terms are included in the table below for reference; these may not constitute the complete current list (see the ISO/IEEE Standard).

Note

Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10102 available through <http://standards.ieee.org/>.

Type: Extensible
Version: 20110330

Table CID 3690. ECG Control Variables Numeric

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|-----------------------------|--|
| MDC | 10:11393 | Sample rate | MDC_ECG_CTL_VBL_SAMPLE_RATE |
| MDC | 10:11394 | Sensitivity | MDC_ECG_CTL_VBL_SENSITIVITY |
| MDC | 10:11395 | Zero offset | MDC_ECG_CTL_VBL_ZERO_OFFSET |
| MDC | 10:11397 | Pad value | MDC_ECG_CTL_VBL_PAD_VALUE |
| MDC | 10:11398 | Time skew | MDC_ECG_CTL_VBL_TIME_SKEW |
| MDC | 10:11399 | Sample skew | MDC_ECG_CTL_VBL_SAMPLE_SKEW |
| MDC | 10:11400 | Time offset | MDC_ECG_CTL_VBL_TIME_OFFSET |
| MDC | 10:11403 | Low pass filter cutoff freq | MDC_ECG_CTL_VBL_ATTR_FILTER_CUTOFF_FREQ |
| MDC | 10:11408 | Notch filter frequency | MDC_ECG_CTL_VBL_ATTR_FILTER_NOTCH_FREQ |
| MDC | 10:11409 | Notch filter bandwidth | MDC_ECG_CTL_VBL_ATTR_FILTER_NOTCH_BANDWIDTH |
| MDC | 10:11418 | Interpolator SNR | MDC_ECG_CTL_VBL_INTERPOLATOR_SNR |

CID 3691 ECG Control Variables Text

This Context Group includes the ECG control variables specified in the ISO/IEEE 11073-10102 nomenclature that take text or coded values. The terms are included in the table below for reference; these may not constitute the complete current list (see the ISO/IEEE Standard).

Note

Codes reprinted by permission of IEEE, Copyright 2004 by IEEE. ISO/IEEE 11073-10102 available through <http://standards.ieee.org/>.

Type: Extensible
Version: 20110330

Table CID 3691. ECG Control Variables Text

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|------------------------------|--|
| MDC | 10:11402 | Low pass filter | MDC_ECG_CTL_VBL_ATTR_FILTER_LOW_PASS |
| MDC | 10:11404 | High pass filter | MDC_ECG_CTL_VBL_ATTR_FILTER_HIGH_PASS |
| MDC | 10:11406 | High pass filter description | MDC_ECG_CTL_VBL_ATTR_FILTER_DESCRIPTION |

| Coding Scheme Designator | Code Value | Code Meaning | ISO/IEEE 11073 MDC Equivalent Reference ID (Informative) |
|--------------------------|------------|--------------------------|--|
| MDC | 10:11407 | Notch filter | MDC_ECG_CTL_VBL_ATTR_FILTER_NOTCH |
| MDC | 10:11410 | Notch filter description | MDC_ECG_CTL_VBL_ATTR_FILTER_NOTCH_DESCRIPTION |
| MDC | 10:11412 | Baseline description | MDC_ECG_CTL_VBL_BASELINE_DESC |
| MDC | 10:11414 | Interpolator | MDC_ECG_CTL_VBL_INTERPOLATOR |
| MDC | 10:11416 | Interpolator description | MDC_ECG_CTL_VBL_INTERPOLATOR_DESC |

CID 3692 ICDs

This Context Group includes the full set of codes for types of implanted cardioverter/defibrillators (ICDs) specified in the NASPE/BPEG Defibrillator Code (NBD). The Coding Scheme Designator (0008,0102) shall be NBD.

Note

Further information at <http://www.hrsonline.org/News/ep-history/topics-in-depth/modecodehistory.cfm>. For reference, the scheme is reproduced here:

| Code Position | Shock chamber | Antitachycardia pacing chamber | Tachycardia detection | Antibradycardia pacing chamber |
|--------------------|---|---|------------------------------------|---|
| Code values | O = None A = Atrium V = Ventricle D = Dual (A+V) | O = None A = Atrium V = Ventricle D = Dual (A+V) | E = Electrogram H = Hemodynamic | O = None A = Atrium V = Ventricle D = Dual (A+V) |

Short Form

ICD-S = ICD with shock capability only

ICD-B = ICD with bradycardia pacing as well as shock

ICD-T = ICD with tachycardia (and bradycardia) pacing as well as shock

CID 3700 Cath Diagnosis

Type: Extensible
Version: 20160314

Table CID 3700. Cath Diagnosis

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|
| SRT | D3-13040 | Coronary artery disease | 53741008 | C1956346 |
| SRT | D3-15100 | Acute myocardial infarction | 57054005 | C0155626 |
| SRT | F-37012 | Atypical chest pain | 102589003 | C0262384 |
| SRT | D3-13020 | Stable Angina | 233819005 | C0340288 |
| SRT | D3-12400 | Atypical Angina, Variant Angina | 87343002 | C0002963 |
| SRT | D3-12700 | Unstable Angina, Progressive Angina | 4557003 | C0002965 |
| SRT | D3-13014 | Post-infarction angina | 314116003 | C1278535 |
| SRT | R-00368 | Recurrent angina Post-PTCA | 371808007 | C1299436 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-00367 | Recurrent angina Post-DCA | 371812001 | C1299440 |
| SRT | R-00369 | Recurrent angina Post-Rotational Atherectomy | 371811008 | C1299439 |
| SRT | R-00366 | Recurrent angina Post-Stent | 371809004 | C1299437 |
| SRT | R-00365 | Recurrent angina Post-CABG | 371810009 | C1299438 |
| SRT | D3-16010 | Congestive heart failure | 42343007 | C0018802 |
| SRT | D2-61100 | Pulmonary edema | 19242006 | C0034063 |
| SRT | D3-00200 | cardiogenic shock | 89138009 | C0036980 |
| SRT | R-002CB | Acute ventricular septal rupture | 371817007 | C1299445 |
| SRT | D3-29010 | Mitral valve disease | 11851006 | C0026265 |
| SRT | D3-29011 | Mitral stenosis | 79619009 | C0026269 |
| SRT | D3-29012 | Mitral regurgitation | 48724000 | C0026266 |
| SRT | D3-29096 | Acute mitral regurgitation | 373116009 | C1298807 |
| SRT | D3-13021 | Silent ischemia | 233823002 | C0340291 |
| SRT | R-00336 | s/p MI positive stress for ischemia | 371824008 | C1300077 |
| SRT | D3-26000 | Myocarditis | 50920009 | C0027059 |
| SRT | D3-28102 | Subacute bacterial endocarditis | 73774007 | C0014122 |
| SRT | D3-2906A | Idiopathic hypertrophic subaortic stenosis | 360465008 | C0700053 |
| SRT | D3-40300 | Pulmonary hypertension | 70995007 | C0020542 |
| SRT | D3-29040 | Tricuspid valve disease | 20721001 | C0264882 |
| SRT | D3-29042 | Tricuspid regurgitation | 111287006 | C0040961 |
| SRT | D3-1081C | Mitral valve prolapse | 409712001 | C0026267 |
| SRT | D3-31700 | Ventricular tachycardia | 25569003 | C0042514 |
| SRT | D3-31720 | Ventricular fibrillation | 71908006 | C0042510 |
| SRT | D3-20021 | Congestive cardiomyopathy | 399020009 | C0007193 |
| SRT | D3-02500 | Hypertensive heart disease | 64715009 | C0152105 |
| SRT | D3-22100 | Restrictive cardiomyopathy | 90828009 | C0007196 |
| SRT | D3-90000 | Pericardial disease | 55855009 | C0265122 |
| SRT | D3-90100 | Pericardial tamponade | 35304003 | C0007177 |
| SRT | D3-29020 | Aortic valve disease | 8722008 | C1260873 |
| SRT | D3-29021 | Aortic stenosis | 60573004 | C0003507 |
| SRT | D3-29025 | Aortic insufficiency | 194983005 | C0340377 |
| SRT | D4-31220 | Atrial septal defect | 70142008 | C0018817 |
| SRT | D3-80016 | Aortic dissection | 308546005 | C0340643 |
| SRT | D3-29050 | Pulmonic valve disease | 76267008 | C0034087 |
| SRT | D4-31150 | Ventricular septal defect | 30288003 | C0018818 |
| SRT | D3-83300 | Aortic aneurysm | 67362008 | C0003486 |
| SRT | R-10042 | Arrhythmia Evaluation | 386125002 | C1272581 |
| SRT | D3-31520 | Atrial fibrillation | 49436004 | C0004238 |
| SRT | D4-31000 | heart disease, congenital | 13213009 | C0152021 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | D3-91030 | Constrictive pericarditis | 85598007 | C0031048 |

CID 3701 Cardiac Valves and Tracts

Type: Extensible
Version: 20030327

Table CID 3701. Cardiac Valves and Tracts

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | T-35300 | Mitral Valve | 91134007 | C0026264 |
| SRT | T-35400 | Aortic Valve | 34202007 | C0003501 |
| SRT | T-35100 | Tricuspid valve | 46030003 | C0040960 |
| SRT | T-35200 | Pulmonary valve | 39057004 | C0034086 |
| SRT | T-32650 | Left ventricle outflow tract | 13418002 | C0225912 |

CID 3703 Wall Motion

Type: Extensible
Version: 20111028

Table CID 3703. Wall Motion

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | R-00378 | Not Evaluated | 373121007 | C1298808 |
| SRT | R-41198 | Unknown | 261665006 | C0439673 |
| DCM | 122288 | Not visualized | | |
| SRT | R-00344 | Normal wall motion | 373122000 | C1298809 |
| SRT | R-0030D | Hyperkinetic region | 373123005 | C1298810 |
| SRT | F-32056 | Hypokinesis | 37706002 | C0232172 |
| SRT | R-00327 | Mild Hypokinesis | 371868005 | C1299342 |
| SRT | R-0032F | Moderate Hypokinesis | 371869002 | C1299343 |
| SRT | R-00370 | Severe Hypokinesis | 371870001 | C1299344 |
| SRT | F-30004 | Akinesis | 195675009 | C0232171 |
| SRT | F-32052 | Dyskinesis | 25437005 | C0232168 |

Note

In prior editions, this Context Group included incorrect codes for "Hypokinesis" and "Mild Hypokinesis" (see PS3.16-2011).

CID 3704 Myocardium Wall Morphology Findings

Type: Extensible
Version: 20030327

Table CID 3704. Myocardium Wall Morphology Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| DCM | 122112 | Normal Myocardium | | |
| SRT | D3-10510 | Ventricular Aneurysm | 90539001 | C0392464 |
| DCM | 122113 | Scarred Myocardium | | |
| DCM | 122114 | Thinning Myocardium | | |

CID 3705 Chamber Size

Type: Extensible
Version: 20030327

Table CID 3705. Chamber Size

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|
| SRT | R-00343 | Normal size cardiac chamber | 373124004 | C1298811 |
| SRT | R-002C6 | Abnormally small cardiac chamber | 373125003 | C1298812 |
| SRT | R-0032A | Mildly Enlarged cardiac chamber | 373126002 | C1298813 |
| SRT | R-00331 | Moderately Enlarged cardiac chamber | 373127006 | C1298814 |
| SRT | R-00316 | Markedly Enlarged cardiac chamber | 373128001 | C1298815 |

CID 3706 Overall Contractility

Type: Extensible
Version: 20111028

Table CID 3706. Overall Contractility

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | R-00341 | Normal wall contractility | 373129009 | C1298816 |
| SRT | R-00398 | Hyperkinesis | 371855002 | C1299330 |
| SRT | F-32056 | Hypokinesis | 37706002 | C0232172 |
| SRT | F-30004 | Akinesis | 195675009 | C0232171 |

CID 3707 VSD Description

Type: Extensible
Version: 20030327

Table CID 3707. VSD Description

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | D4-31154 | Membranous | 94150003 | C0685706 |
| SRT | R-0033B | Non-restrictive | 373131000 | C1298817 |
| SRT | D4-31166 | Restrictive | 253551005 | C0344924 |
| SRT | R-40775 | None | 260413007 | C0549184 |

CID 3709 Aortic Root Description

Type: Extensible
Version: 20030327

Table CID 3709. Aortic Root Description

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | R-0033C | Normal Aortic Root | 373132007 | C1298818 |
| SRT | R-00301 | Enlarged Aortic Root | 373133002 | C1298819 |
| SRT | R-002CD | Aneurysm of Aortic Root | 373134008 | C1298820 |
| SRT | R-002D1 | Annular Abscess of Aortic Root | 373135009 | C1298821 |
| SRT | R-003A1 | Post Stenotic Dilation | 371872009 | C1299346 |
| SRT | D3-83660 | Ruptured Sinus of Valsalva | 21379009 | C0265019 |

CID 3710 Coronary Dominance

Type: Extensible
Version: 20111028

Table CID 3710. Coronary Dominance

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | D4-3252C | Left Coronary Dominance | 253729004 | C0345136 |
| SRT | D4-3252B | Right Coronary Dominance | 253728007 | C0345135 |
| SRT | D4-3252D | Balanced Coronary Dominance | 253730009 | C0345137 |

Note

In prior editions, this Context Group included NCDR 2.0b codes as the primary set. These have been replaced with equivalent SNOMED codes (see PS3.16-2011).

CID 3711 Valvular Abnormalities

Type: Extensible
Version: 20160314

Table CID 3711. Valvular Abnormalities

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | D3-29001 | Stenosis | 44241007 | C0264878 |
| SRT | F-32400 | Regurgitation | 10337008 | C0042300 |
| SRT | R-0030B | Calcified Heart Valve | 373136005 | C1142152 |
| SRT | R-0030F | Immobile Heart Valve | 373137001 | C1298822 |
| DCM | 127856 | Heart Valve Flail | | |
| SRT | D3-28005 | Valvular endocarditis | 89736004 | C0264865 |

CID 3712 Vessel Descriptors

Type: Extensible
Version: 20160314

Table CID 3712. Vessel Descriptors

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | R-00389 | Ulcerated | 373138006 | C1298823 |
| SRT | R-0036B | Restenotic | 371893007 | C1299362 |
| SRT | R-002E2 | Bifurcation | 371894001 | C1299363 |
| SRT | R-002EF | Culprit | 371895000 | C1299364 |
| SRT | R-40411 | Aneurysmal | 255378009 | C0439651 |
| SRT | R-002FC | Diffuse Disease | 371915000 | C1299384 |
| SRT | R-00314 | Luminal Irregularities | 371873004 | C1299347 |
| SRT | D4-31B68 | Muscle Bridge | 424045003 | C1827939 |
| SRT | R-10050 | Stenotic | 386139002 | C1272588 |
| SRT | R-10051 | Ectatic | 386140000 | C1272589 |
| SRT | D6-34737 | Calcified | 237897009 | C0342649 |
| SRT | M-35001 | Thrombus | 396339007 | C0087086 |
| SRT | R-10048 | Tortuous | 386137000 | C1272586 |
| SRT | R-10049 | Stented | 386138005 | C1272587 |

CID 3713 TIMI Flow Characteristics

Type: Extensible
Version: 20030327

Table CID 3713. TIMI Flow Characteristics

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR Equivalent |
|--------------------------|------------|----------------------------------|----------------------|------------------------|-----------------|
| SRT | R-0037E | 0: No Perfusion | 371867000 | C1299341 | 106-0, 107-0 |
| SRT | R-0037F | 1: Penetration without Perfusion | 371866009 | C1299340 | 106-1, 107-1 |
| SRT | R-00381 | 2: Partial Perfusion | 371864007 | C1299338 | 106-2, 107-2 |
| SRT | R-00382 | 3: Complete Perfusion | 371865008 | C1299339 | 106-3, 107-3 |

CID 3714 Thrombus

Type: Extensible
Version: 20030327

Table CID 3714. Thrombus

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | R-0033A | No Thrombus | 373140001 | C1276764 |
| SRT | R-00356 | Possible Thrombus | 373141002 | C1298825 |
| SRT | R-002F1 | Definite Thrombus | 373142009 | C1298826 |
| SRT | R-00371 | Severe Thrombus | 373143004 | C1298827 |

CID 3715 Lesion Margin

Type: Extensible

Version: 20050614

Table CID 3715. Lesion Margin

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | G-A545 | Smooth | 82280004 | C0205357 |
| SRT | G-A402 | Irregular | 49608001 | C0205271 |
| SRT | R-00335 | Multiple Irregularities | 371922008 | C1299391 |
| SRT | R-403CC | Ulcerative | 255321001 | C0041582 |

CID 3716 Severity

Type: Extensible
Version: 20070827

Table CID 3716. Severity

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------|----------------------|------------------------|
| SRT | R-40775 | None | 260413007 | C0549184 |
| SRT | R-404FA | Mild | 255604002 | C2945599 |
| SRT | R-00329 | Mild to Moderate | 371923003 | C1299392 |
| SRT | G-A002 | Moderate | 6736007 | C0205081 |
| SRT | R-00330 | Moderate to Severe | 371924009 | C1299393 |
| SRT | G-A003 | Severe | 24484000 | C0205082 |
| SRT | R-4099D | Fatal | 399166001 | C1302234 |

CID 3717 Myocardial Wall Segments

This 17-segment model of left ventricular myocardial wall segments uses the terminology specified in "AHA Scientific Statement: Standardized Myocardial Segmentation and Nomenclature for Tomographic Imaging of the Heart"(see Section 2).

Type: **Non-Extensible**
Version: 20030327

Table CID 3717. Myocardial Wall Segments

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-32619 | left ventricle basal anterior segment | 264850008 | C0555926 |
| SRT | R-10075 | left ventricle basal anteroseptal segment | 396482007 | C1300766 |
| SRT | R-10076 | left ventricle basal inferoseptal segment | 396646008 | C1300903 |
| SRT | T-32615 | left ventricle basal inferior segment | 264846001 | C0555929 |
| SRT | R-10079 | left ventricle basal inferolateral segment | 396652009 | C1300909 |
| SRT | R-1007A | left ventricle basal anterolateral segment | 396654005 | C1300911 |
| SRT | T-32617 | left ventricle mid anterior segment | 264848000 | C0555925 |
| SRT | R-10077 | left ventricle mid anteroseptal segment | 396647004 | C1300904 |
| SRT | R-10078 | left ventricle mid inferoseptal segment | 396649001 | C1300906 |
| SRT | T-32616 | left ventricle mid inferior segment | 264847005 | C0555924 |
| SRT | R-1007B | left ventricle mid inferolateral segment | 396655006 | C1300912 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-1007C | left ventricle mid anterolateral segment | 396656007 | C1300913 |
| SRT | T-32613 | left ventricle apical anterior segment | 264844003 | C0555922 |
| SRT | T-32614 | left ventricle apical septal segment | 264845002 | C0555923 |
| SRT | T-32618 | left ventricle apical inferior segment | 264849008 | C0555930 |
| SRT | T-3261C | left ventricle apical lateral segment | 264853005 | C0555928 |
| SRT | T-32602 | apex of left ventricle | 128564006 | C0580781 |

CID 3718 Myocardial Wall Segments in Projection

This context group specifies the left ventricular myocardial wall segments as seen in typical right anterior oblique (RAO) and left anterior oblique (LAO) angiographic projections.

Type: Extensible
Version: 20030614

Table CID 3718. Myocardial Wall Segments in Projection

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | T-32619 | left ventricle basal anterior segment | 264850008 | C0555926 |
| SRT | T-32634 | myocardium of anterolateral region | 73050001 | C0225907 |
| SRT | T-32636 | myocardium of apex of heart | 47962008 | C0225909 |
| SRT | T-32632 | myocardium of diaphragmatic region | 72542009 | C0225905 |
| SRT | T-32615 | left ventricle basal inferior segment | 264846001 | C0555929 |
| SRT | T-32603 | left ventricle basal lateral segment | 277631004 | C0559192 |
| SRT | T-32633 | myocardium of posterolateral region | 33272004 | C0225906 |
| SRT | T-32637 | myocardium of inferolateral region | 16239001 | C0225910 |
| SRT | T-32614 | left ventricle apical septal segment | 264845002 | C0555923 |
| SRT | T-32601 | left ventricular basal septal segment | 277630003 | C0559191 |
| SRT | R-101C0 | left ventricular posterobasal segment | 408720008 | C1443269 |

CID 3719 Canadian Clinical Classification

Type: Extensible
Version: 20070827

Table CID 3719. Canadian Clinical Classification

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR [2.0b] Equivalent |
|--------------------------|------------|------------------------|----------------------|------------------------|------------------------|
| SRT | F-A265A | Chest pain not present | 161971004 | C0423635 | 50-0 |
| SRT | D3-12001 | Angina Class I | 61490001 | C0264675 | 50-I |
| SRT | D3-12002 | Angina Class II | 41334000 | C0264676 | 50-II |
| SRT | D3-12003 | Angina Class III | 85284003 | C0264677 | 50-III |
| SRT | D3-12004 | Angina Class IV | 89323001 | C0264678 | 50-IV |

Note

In prior editions, this Context Group included the NCDR 2.0b codes as the primary set. These have been replaced with equivalent SNOMED codes.

CID 3720 Cardiac History Dates (Retired)

This Context Group is retired. See PS3.16-2007.

CID 3721 Cardiovascular Surgeries

Type: Extensible
Version: 20081027

Table CID 3721. Cardiovascular Surgeries

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR [2.0b] Equivalent |
|--------------------------|------------|---|----------------------|------------------------|------------------------|
| SRT | R-102B4 | Percutaneous coronary intervention | 415070008 | C1532338 | 40 |
| SRT | P1-3301A | Coronary artery bypass graft | 232717009 | C0010055 | 42 |
| SRT | P1-32000 | Operation on heart valve | 73544002 | C0190065 | 44 |
| SRT | P1-31C03 | Ablation operation for arrhythmia | 233159005 | C0397403 | |
| SRT | P0-004BA | Implantation of cardiac pacemaker | 307280005 | C0189842 | |
| SRT | P1-3157D | Implantation of automatic cardiac defibrillator | 233170003 | C0397417 | |
| SRT | P1-0555A | Abdominal aortic aneurysm stenting | 307701005 | C0585569 | |
| SRT | P1-31D00 | Heart transplant | 32413006 | C0018823 | |
| SRT | P1-080B4 | Correction of congenital cardiovascular deformity | 428613004 | C1997888 | |

Note

In prior editions, this Context Group included the NCDR 2.0b codes as the primary set. These have been replaced with equivalent SNOMED codes.

CID 3722 Diabetic Therapy

Type: Extensible
Version: 20141103

Table CID 3722. Diabetic Therapy

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | F-02F14 | Diabetic on Dietary Treatment | 170745003 | C0421246 |
| SRT | F-02F15 | Diabetic on Oral Treatment | 170746002 | C0421247 |
| SRT | F-02F16 | Diabetic on Insulin | 170747006 | C0421248 |

Note

In prior editions, this Context Group included the NCDR 2.0b codes as the primary set. These have been replaced with equivalent SNOMED codes.

CID 3723 MI Types

Type: Extensible
Version: 20070827

Table CID 3723. MI Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR [2.0b] Equivalent |
|--------------------------|------------|--|----------------------|------------------------|------------------------|
| SRT | D3-1511A | Non ST Elevation Myocardial Infarction | 401314000 | C1276061 | 94-1 |
| SRT | D3-15119 | ST Elevation Myocardial Infarction | 401303003 | C1303258 | 94-2 |

Note

In prior editions, this Context Group included the NCDR 2.0b codes as the primary set. These have been replaced with equivalent SNOMED codes.

CID 3724 Smoking History

Type: Extensible
Version: 20070827

Table CID 3724. Smoking History

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR [2.0b] Equivalent |
|--------------------------|------------|-----------------------|----------------------|------------------------|------------------------|
| SRT | F-9321F | No History of Smoking | 266919005 | C0425293 | 38-0 |
| SRT | S-32000 | Current Smoker | 77176002 | C3241966 | 38-1 |
| SRT | S-32070 | Former Smoker | 8517006 | C0337671 | 38-2 |

Note

In prior editions, this Context Group included the NCDR 2.0b codes as the primary set. These have been replaced with equivalent SNOMED codes.

CID 3726 Indications for Coronary Intervention

Type: Extensible
Version: 20030327

Table CID 3726. Indications for Coronary Intervention

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR Equivalent |
|--------------------------|------------|----------------------------------|----------------------|------------------------|-----------------|
| DCM | 122171 | Coronary lesion > = 50% stenosis | | | |
| SRT | D3-00200 | Cardiogenic Shock | 89138009 | C0036980 | 123 |

CID 3727 Indications for Catheterization

Type: Extensible
Version: 20111028

Table CID 3727. Indications for Catheterization

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | D3-00200 | cardiogenic shock | 89138009 | C0036980 |
| SRT | D3-10800 | valvular heart disease | 368009 | C0018824 |
| SRT | D3-30000 | Arrhythmia | 44808001 | C0264886 |
| SRT | D3-10030 | ischemic heart disease | 414545008 | C0151744 |
| SRT | F-000FF | cardiac function test abnormal | 165076002 | C0438177 |
| SRT | P1-31D00 | heart transplant | 32413006 | C0018823 |
| SRT | D4-31000 | heart disease - congenital | 13213009 | C0152021 |
| SRT | D3-20000 | cardiomyopathy | 85898001 | C0878544 |
| SRT | D3-10000 | heart disease | 56265001 | C0018799 |

Note

1. (D3-10000, SRT, "heart disease") should be used only when a more specific characterization of the disease is not applicable.
2. In prior editions, this Context Group included NCDR 2.0b codes as the primary set. These have been replaced with equivalent SNOMED codes (see PS3.16-2011).

CID 3728 Cath Findings

Type: Extensible
Version: 20160314

Table CID 3728. Cath Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | R-0033F | Normal left heart hemodynamics | 371856001 | C1299331 |
| SRT | R-00342 | Normal right heart hemodynamics | 371859008 | C1299334 |
| SRT | R-0033E | Normal left and right heart hemodynamics | 371858000 | C1299333 |
| SRT | R-00340 | Normal left ventricular systolic function and wall motion | 371857005 | C1299332 |
| SRT | R-0033D | Normal coronary arteries | 371860003 | C1299335 |
| SRT | R-00328 | Mild intimal coronary irregularities, no significant stenoses | 371861004 | C1299336 |
| SRT | D3-13001 | Single vessel coronary artery disease. | 194842008 | C0581374 |
| SRT | D3-13013 | Double vessel coronary artery disease. | 194843003 | C0581375 |
| SRT | D3-1301F | Triple vessel coronary artery disease. | 233817007 | C0340285 |
| SRT | R-00334 | Multi vessel coronary artery disease. | 371803003 | C1299432 |
| SRT | R-00313 | Left main coronary artery disease | 371804009 | C1299433 |
| SRT | R-00372 | Significant coronary bypass graft disease | 371805005 | C1299434 |
| SRT | D3-29021 | Aortic stenosis | 60573004 | C0003507 |
| SRT | D3-29025 | Aortic insufficiency | 194983005 | C0340377 |
| SRT | D3-29011 | Mitral stenosis | 79619009 | C0026269 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | D3-29012 | Mitral regurgitation | 48724000 | C0026266 |
| SRT | R-002F3 | Depression of left ventricular systolic function | 371862006 | C1299337 |
| SRT | R-002C8 | Acute mitral regurgitation from chordal rupture | 371813006 | C1299441 |
| SRT | R-002C7 | Acute mitral regurgitation from chordal dysfunction | 371814000 | C1299442 |
| SRT | R-002CA | Acute mitral regurgitation from papillary muscle rupture | 371816003 | C1299444 |
| SRT | R-002C9 | Acute mitral regurgitation from papillary muscle dysfunction | 371815004 | C1299443 |
| SRT | D3-1081C | Mitral valve prolapse | 409712001 | C0026267 |
| SRT | D3-20021 | Congestive cardiomyopathy | 399020009 | C0007193 |
| SRT | D3-23000 | Hypertrophic cardiomyopathy with obstruction | 45227007 | C0007194 |
| SRT | D3-20003 | Hypertrophic cardiomyopathy without obstruction | 195020003 | C0340425 |
| SRT | D3-02500 | Hypertensive heart disease | 64715009 | C0152105 |
| SRT | D3-22100 | Restrictive cardiomyopathy | 90828009 | C0007196 |
| SRT | D3-90100 | Pericardial tamponade | 35304003 | C0007177 |
| SRT | D3-91030 | Constrictive pericarditis | 85598007 | C0031048 |
| SRT | D3-40300 | Pulmonary hypertension | 70995007 | C0020542 |
| SRT | D4-31220 | Atrial septal defect | 70142008 | C0018817 |
| SRT | D4-31150 | Ventricular septal defect | 30288003 | C0018818 |
| SRT | R-002CB | Acute ventricular septal rupture | 371817007 | C1299445 |
| SRT | D4-31000 | heart disease - congenital | 13213009 | C0152021 |

CID 3729 Admission Status

Type: Extensible
Version: 20070827

Table CID 3729. Admission Status

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR [2.0b] Equivalent |
|--------------------------|------------|----------------------|----------------------|------------------------|------------------------|
| SRT | P0-10010 | Elective | 8715000 | C0184667 | 17-1 |
| SRT | P0-10800 | Emergency Department | 50849002 | C0583237 | 17-2 |
| SRT | P0-10210 | Transfer | 4563007 | C0184681 | 17-3 |

Note

In prior editions, this Context Group included the NCDR 2.0b codes as the primary set. These have been replaced with equivalent SNOMED codes.

CID 3730 Insurance Payor

Type: Extensible

Version: 20030327

Table CID 3730. Insurance Payor

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning |
|--------------------------|-----------------------|------------|---------------------------------|
| NCDR | 2.0b | 18-1 | Government |
| NCDR | 2.0b | 18-2 | Commercial |
| NCDR | 2.0b | 18-3 | Health Maintenance Organization |
| NCDR | 2.0b | 18-4 | None |

CID 3733 Primary Cause of Death

Type: Extensible

Version: 20030327

Table CID 3733. Primary Cause of Death

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning |
|--------------------------|-----------------------|------------|--------------|
| NCDR | 2.0b | 25-1 | Cardiac |
| NCDR | 2.0b | 25-2 | Neurologic |
| NCDR | 2.0b | 25-3 | Renal |
| NCDR | 2.0b | 25-4 | Vascular |
| NCDR | 2.0b | 25-5 | Infection |
| NCDR | 2.0b | 25-6 | Pulmonary |
| NCDR | 2.0b | 25-7 | Valvular |
| NCDR | 2.0b | 25-8 | Other |

CID 3735 Acute Coronary Syndrome Time Period

Type: Extensible

Version: 20030327

Table CID 3735. Acute Coronary Syndrome Time Period

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning |
|--------------------------|-----------------------|------------|------------------------------|
| NCDR | 2.0b | 51-1 | < = 6 hours |
| NCDR | 2.0b | 51-2 | between 6 hours and 24 hours |
| NCDR | 2.0b | 51-3 | between 24 hours and 7 days |

CID 3736 NYHA Classification

Type: Extensible

Version: 20070827

Table CID 3736. NYHA Classification

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR [2.0b] Equivalent |
|--------------------------|------------|----------------|----------------------|------------------------|------------------------|
| SRT | F-3018B | NYHA Class I | 420300004 | C1319793 | 47-I |
| SRT | F-3018C | NYHA Class II | 421704003 | C1319794 | 47-II |
| SRT | F-3018D | NYHA Class III | 420913000 | C1319795 | 47-III |
| SRT | F-3018E | NYHA Class IV | 422293003 | C1319796 | 47-IV |

Note

In prior editions, this Context Group included the NCDR 2.0b codes as the primary set. These have been replaced with equivalent SNOMED codes.

CID 3737 Non-invasive Test - Ischemia

Type: Extensible
Version: 20030327

Table CID 3737. Non-invasive Test - Ischemia

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning |
|--------------------------|-----------------------|------------|--------------|
| NCDR | 2.0b | 48-1 | Not Done |
| NCDR | 2.0b | 48-2 | Positive |
| NCDR | 2.0b | 48-3 | Negative |
| NCDR | 2.0b | 48-4 | Equivocal |
| NCDR | 2.0b | 48-5 | Arrhythmia |

CID 3738 Pre-Cath Angina Type

Type: Extensible
Version: 20030327

Table CID 3738. Pre-Cath Angina Type

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning |
|--------------------------|-----------------------|------------|---|
| NCDR | 2.0b | 49-I | Atypical Chest Pain |
| NCDR | 2.0b | 49-II | Stable Angina |
| NCDR | 2.0b | 49-IIIa | Acute Coronary Syndrome: Unstable Angina |
| NCDR | 2.0b | 49-IIIb | Acute Coronary Syndrome: Non ST-Elevation Myocardial Infarction |
| NCDR | 2.0b | 49-IIIc | Acute Coronary Syndrome: ST-Elevation Myocardial Infarction |

CID 3739 Cath Procedure Type

Type: Extensible
Version: 20030327

Table CID 3739. Cath Procedure Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR Equivalent |
|--------------------------|------------|--|----------------------|------------------------|-----------------|
| SRT | P1-31602 | Catheterization of right heart | 40403005 | C0189896 | 54-1 |
| SRT | P1-31604 | Catheterization of left heart | 67629009 | C0189897 | 54-2 |
| SRT | P1-3160A | Catheterization of both left and right heart with graft | 128952006 | C1293383 | |
| SRT | P1-3160B | Catheterization of both left and right heart without graft | 128953001 | C1293384 | |
| DCM | 122061 | Percutaneous Coronary Intervention | | | 54-3 |

CID 3740 Thrombolytic Administration

Type: Extensible
Version: 20030327

Table CID 3740. Thrombolytic Administration

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR Equivalent |
|--------------------------|------------|--|----------------------|------------------------|-----------------|
| SRT | R-0037D | Contraindicated | 373148008 | C1276287 | 57-1 |
| SRT | R-0037C | Administered less than 3 hours before PCI | 371896004 | C1299365 | 57-2 |
| SRT | R-0037A | Administered between 3 and 6 hours before PCI | 371897008 | C1299366 | 57-3 |
| SRT | R-0037B | Administered between 6 hours and 7 days before PCI | 371906007 | C1299375 | 57-4 |

CID 3741 Medication Administration, Lab Visit

Type: Extensible
Version: 20030327

Table CID 3741. Medication Administration, Lab Visit

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR Equivalent |
|--------------------------|------------|-------------------------------|----------------------|------------------------|-----------------|
| SRT | R-00321 | Contraindicated | 373147003 | C1298831 | 58-1 |
| SRT | R-0031B | Administered before lab visit | 371898003 | C1299367 | 58-2 |
| SRT | R-0031C | Administered during lab visit | 371905006 | C1299374 | 58-3 |
| SRT | R-0031A | Administered after lab visit | 371899006 | C1299368 | 58-4 |

CID 3742 Medication Administration, PCI

Type: Extensible
Version: 20030327

Table CID 3742. Medication Administration, PCI

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR Equivalent |
|--------------------------|------------|--|----------------------|------------------------|-----------------|
| SRT | R-00320 | Not Administered | 371900001 | C1299369 | |
| SRT | R-00321 | Contraindicated | 373147003 | C1298831 | 59-1 |
| SRT | R-0031F | Administered Prior to Percutaneous Coronary Intervention | 371904005 | C1299373 | 59-2 |
| SRT | R-0039A | Administered During Percutaneous Coronary Intervention | 371903004 | C1299372 | 59-3 |
| SRT | R-00399 | Administered After Percutaneous Coronary Intervention | 371902009 | C1299371 | 59-4 |

CID 3743 Clopidogrel/Ticlopidine Administration

Type: Extensible

Version: 20030327

Table CID 3743. Clopidogrel/Ticlopidine Administration

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR Equivalent |
|--------------------------|------------|---|----------------------|------------------------|-----------------|
| SRT | R-00320 | Not Administered | 371900001 | C1299369 | 60-1 |
| SRT | R-00321 | Contraindicated | 373147003 | C1298831 | 60-2 |
| SRT | R-0031E | Administered Less than 72 Hours before PCI | 371901002 | C1299370 | 60-3 |
| SRT | R-00399 | Administered After Percutaneous Coronary Intervention | 371902009 | C1299371 | 60-4 |

CID 3744 EF Testing Method

Type: Extensible
Version: 20160314

Table CID 3744. EF Testing Method

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | P5-3003A | Cardiac ventriculography | 252426003 | C0596683 |
| SRT | P5-D3300 | Radionuclide ventriculography | 85606007 | C0034610 |
| SRT | P5-B3000 | Echocardiography | 40701008 | C0013516 |

Note

Previously, a non-existent SNOMED code, (P5-B3081, SRT, "Adult echocardiography"), was used in this context group. It has been replaced with the more generic (P5-B3000, SRT, "Echocardiography") (rather than replacement with (P5-B3004, SRT, "Transthoracic echocardiography"); see Table J-1 SNOMED Codes Retired from DICOM Use.

CID 3745 Calculation Method

Type: Extensible
Version: 20050110

Table CID 3745. Calculation Method

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-10260 | Estimated | 414135002 | C0750572 |
| SRT | R-41D2D | Calculated | 258090004 | C0444686 |

CID 3746 Percutaneous Entry Site

This Context Group includes concepts for Percutaneous entry that are the most relevant children of SNOMED concept 297211001 "transvascular approach". Other concepts from that hierarchy may be used as local extensions to this Context Group.

Type: Extensible
Version: 20110609

Table CID 3746. Percutaneous Entry Site

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------|----------------------|------------------------|
| SRT | G-D067 | Via femoral artery | 260590008 | C0442441 |
| SRT | G-D1E4 | Via radial artery | 444850002 | C2919368 |
| SRT | G-D05F | Via brachial artery | 260585005 | C0442436 |
| SRT | G-D054 | Via artery | 103387006 | C0522522 |
| SRT | G-D0C6 | Via arm vein | 261459001 | C0442444 |
| SRT | G-D071 | Via femoral vein | 260601006 | C0442455 |
| SRT | G-D052 | Via vein | 103386002 | C0522521 |

Note

In prior editions, this Context Group included NCDR 2.0b codes as the primary set. These have been replaced with equivalent SNOMED codes (see PS3.16-2009).

CID 3747 Percutaneous Closure

Type: Extensible
Version: 20030327

Table CID 3747. Percutaneous Closure

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning |
|--------------------------|-----------------------|------------|--|
| NCDR | 2.0b | 75-0 | No closure device used at percutaneous entry |
| NCDR | 2.0b | 75-1 | Percutaneous entry closed by suture |
| NCDR | 2.0b | 75-2 | Percutaneous entry closed by sealant |
| NCDR | 2.0b | 75-3 | Percutaneous entry closed by other mechanism |

CID 3748 Angiographic EF Testing Method

Type: Extensible
Version: 20030327

Table CID 3748. Angiographic EF Testing Method

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | 122059 | Single plane Angiography |
| DCM | 122060 | Bi-plane Angiography |

CID 3749 PCI Procedure Result

Type: Extensible
Version: 20030327

Table CID 3749. PCI Procedure Result

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning |
|--------------------------|-----------------------|------------|----------------------|
| NCDR | 2.0b | 100-1 | Successful |
| NCDR | 2.0b | 100-2 | Partially successful |
| NCDR | 2.0b | 100-3 | Unsuccessful |

CID 3750 Previously Dilated Lesion

Type: Extensible
Version: 20030327

Table CID 3750. Previously Dilated Lesion

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning |
|--------------------------|-----------------------|------------|------------------------|
| NCDR | 2.0b | 108-0 | not previously treated |
| NCDR | 2.0b | 108-1 | balloon only |
| NCDR | 2.0b | 108-2 | stent only |
| NCDR | 2.0b | 108-3 | other/any combination |

CID 3752 Guidewire Crossing

Type: Extensible
Version: 20030327

Table CID 3752. Guidewire Crossing

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 122301 | Guidewire crossing lesion unsuccessful |
| DCM | 122302 | Guidewire crossing lesion successful |

CID 3754 Vascular Complications

Type: Extensible
Version: 20050110

Table CID 3754. Vascular Complications

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR 2.0b Equivalent Code Value |
|--------------------------|------------|----------------------|----------------------|------------------------|---------------------------------|
| SRT | M-37000 | Bleeding | 50960005 | C0019080 | 127 |
| SRT | D3-89100 | Occlusion of artery | 1386000 | C0151699 | 128 |
| SRT | R-102B2 | Loss of distal pulse | 414617007 | C1532146 | 129 |
| SRT | D3-81310 | Arterial dissection | 9406001 | C0002949 | 130 |
| SRT | M-32390 | Pseudoaneurysm | 22036004 | C1510412 | 131 |
| SRT | M-39390 | AV Fistula | 128617001 | C0003855 | 132 |

Note

In prior editions, this Context Group included the NCDR 2.0b codes as the primary set. These have been replaced with equivalent SNOMED codes.

CID 3755 Cath Complications

Type: Extensible
Version: 20160314

Table CID 3755. Cath Complications

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR 2.0b Equivalent Code Value |
|--------------------------|------------|--|----------------------|------------------------|---------------------------------|
| SRT | D3-00200 | Cardiogenic shock | 89138009 | C0036980 | 123 |
| SRT | D3-30000 | Arrhythmia | 44808001 | C0264886 | 124 |
| SRT | D3-8900D | Cerebrovascular Accident or Stroke | 230690007 | C0038454 | 125 |
| SRT | D3-90100 | Cardiac tamponade | 35304003 | C0007177 | 126 |
| SRT | DF-10781 | Contrast media adverse reaction | 292095005 | C0569413 | 133 |
| SRT | D3-16010 | Congestive heart failure | 42343007 | C0018802 | 134 |
| SRT | D7-11010 | Renal failure | 42399005 | C0035078 | 135 |
| SRT | R-102B5 | Emergency Percutaneous Coronary Intervention | 414089002 | C1532297 | 136 |
| SRT | R-102B3 | Emergency Coronary Artery Bypass | 414088005 | C1532296 | 137 |
| SRT | D3-3002F | Cardiac arrest | 410429000 | C0018790 | |

Note

In prior editions, this Context Group included the NCDR 2.0b codes as the primary set. These have been replaced with equivalent SNOMED codes.

CID 3756 Cardiac Patient Risk Factors

Type: Extensible
Version: 20100317

Table CID 3756. Cardiac Patient Risk Factors

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | NCDR 2.0b Equivalent Code Value |
|--------------------------|------------|--|----------------------|------------------------|---------------------------------|
| SRT | G-026D | History of congestive heart failure | 161505003 | C0455531 | 30 |
| SRT | G-023F | History of Diabetes | 161445009 | C0455488 | 31 |
| SRT | R-102B6 | History of renal failure | 414417004 | C1533077 | 32 |
| SRT | R-102B7 | History of chronic lung disease | 414415007 | C1533075 | 33 |
| SRT | G-0102 | History of cerebrovascular disease | 308064009 | C0585890 | 34 |
| SRT | D3-8005B | Peripheral vascular disease | 400047006 | C0085096 | 35 |
| SRT | G-03AA | History of myocardial infarction | 399211009 | C1275835 | 36 |
| SRT | G-0269 | History of Hypertension | 161501007 | C0455527 | 37 |
| SRT | R-102B8 | History of hypercholesterolemia | 414416008 | C1533076 | 39 |
| SRT | D3-30000 | Arrhythmia | 44808001 | C0264886 | |
| SRT | F-0331B | HIV Positive | 165816005 | C0019699 | |
| SRT | D8-60001 | Infant of Gestational Diabetic Mother (IGDM) | 276556006 | C0456029 | |
| SRT | G-0586 | Insulin dependent mother (IDM) | 444161008 | C2732238 | |

Note

In prior editions, this Context Group included the NCDR 2.0b codes as the primary set. These have been replaced with equivalent SNOMED codes.

CID 3757 Cardiac Diagnostic Procedures

Type: Extensible
Version: 20160314

Table CID 3757. Cardiac Diagnostic Procedures

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | P5-D3304 | Cardiac blood pool imaging (nuclear) | 35621002 | C0203725 |
| SRT | P5-00A25 | Cardiac cath coronary angiogram and left ventriculogram | 418903008 | C1690980 |
| SRT | P1-31600 | Cardiac catheterization | 41976001 | C0018795 |
| SRT | P5-00A34 | Cardiac catheterization coronary angiogram | 419416005 | C1633729 |
| SRT | P5-08025 | Cardiac CT | 241547009 | C0412618 |
| SRT | P5-080C2 | Cardiac CT for calcium scoring | 426005005 | C1960839 |
| SRT | P5-09011 | Cardiac MRI | 241620005 | C0412692 |
| SRT | P0-00CA7 | Cardiac MRI stress | 431609005 | C2314961 |
| SRT | P5-00A5C | CT angiography of coronary arteries | 419545005 | C1634617 |
| SRT | P5-B3000 | Echocardiography | 40701008 | C0013516 |
| SRT | P5-B3050 | Exercise Stress echocardiography | 433233004 | C0430466 |
| SRT | P0-006E4 | Exercise Tolerance Test | 165079009 | C0015260 |
| SRT | P5-0903A | Magnetic resonance angiography | 241663008 | C0243032 |
| SRT | P5-D30F8 | Nuclear medicine cardiovascular study | 108294005 | C0581579 |
| SRT | P5-D0050 | Perfusion imaging (nuclear) | 35202002 | C0412366 |
| SRT | P5-0A006 | PET heart study | 241439007 | C0412498 |
| SRT | P2-31011 | Pharmacologic and exercise stress test | 428813002 | C1998158 |
| SRT | P2-31107 | Pharmacological stress test | 424064009 | C1827946 |
| SRT | P5-30045 | Radionuclide angiocardiology | 426940008 | C1960212 |
| SRT | P5-D3008 | Radionuclide myocardial perfusion study | 252432008 | C0430471 |
| SRT | P5-0A100 | SPECT | 105371005 | C0040399 |
| SRT | P2-3110B | Stress test using cardiac pacing | 428685003 | C1997441 |
| SRT | P5-B3002 | Transesophageal echocardiography | 105376000 | C0206054 |
| SRT | P5-B3012 | Transthoracic echocardiography | 433236007 | C0430462 |

Note

In a prior version of this Context Group, the code P5-B3009 was specified for Exercise stress echocardiography. That code has been retired by SNOMED, and replaced by P5-B3050. Although there is minimal possibility of misinterpretation with SOP Instances that may include the retired code, receiving applications should be aware of this change; see Annex J.

CID 3758 Cardiovascular Family History

Type: Extensible
Version: 20111028

Table CID 3758. Cardiovascular Family History

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | G-032F | Family history of cardiovascular disease | 266894000 | C0455404 |
| SRT | G-0157 | Family history of diabetes mellitus | 160303001 | C1313937 |
| SRT | G-011E | Family history of myocardial infarction | 266897007 | C0455406 |
| SRT | G-04E3 | Family history of coronary arteriosclerosis | 430091005 | C2317524 |
| SRT | R-2087E | No family history of diabetes | 160274005 | C0455678 |
| SRT | R-20773 | No family history of cardiovascular disease | 160270001 | C0455346 |
| SRT | F-03F6E | Family history unknown | 407559004 | C1319897 |

CID 3760 Hypertension Therapy

Type: Extensible
Version: 20070827

Table CID 3760. Hypertension Therapy

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | C-80135 | Beta blocker | 33252009 | C0001645 |
| SRT | C-80160 | Calcium channel blocker | 48698004 | C0006684 |
| SRT | C-81520 | Nitrate vasodilator | 31970009 | C0360716 |
| SRT | C-80150 | ACE inhibitor | 41549009 | C0003015 |
| SRT | C-81300 | Angiotensin II receptor antagonist | 96308008 | C0521942 |
| SRT | C-72000 | Diuretic | 30492008 | C0012798 |

CID 3761 Antilipemic Agents

Type: Extensible
Version: 20070827

Table CID 3761. Antilipemic Agents

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | C-80609 | Anion exchange resin | 346322006 | C0003072 |
| SRT | C-80610 | Bile acid sequestrant | 83750004 | C0304522 |
| SRT | C-80680 | Fibrate | 108602006 | C0358700 |
| SRT | C-8060A | Fish oils | 346441008 | C0016157 |
| SRT | C-80800 | Statins | 96302009 | C0360714 |

CID 3762 Antiarrhythmic Agents

Type: Extensible
Version: 20070827

Table CID 3762. Antiarrhythmic Agents

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | F-6181B | class I antiarrhythmic agent | 373260001 | C0360692 |
| SRT | F-61861 | class II antiarrhythmic agent | 373278006 | C0360701 |
| SRT | F-61995 | class III antiarrhythmic agent | 372855004 | C0360703 |
| SRT | F-618AE | class IV antiarrhythmic agent | 372693007 | C0360706 |

CID 3764 Myocardial Infarction Therapies

Type: Extensible
Version: 20070827

Table CID 3764. Myocardial Infarction Therapies

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | R-102B4 | Percutaneous coronary intervention | 415070008 | C1532338 |
| SRT | P1-33530 | Insertion of coronary artery stent | 36969009 | C0521232 |
| SRT | P1-3301A | Coronary artery bypass graft | 232717009 | C0010055 |
| SRT | P0-00C29 | Thrombolytic therapy | 426347000 | C0040044 |

CID 3769 Concern Types

Type: Extensible
Version: 20070827

Table CID 3769. Concern Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | F-04BA9 | Complaint | 409586006 | C0277786 |
| SRT | DF-00000 | Disease | 64572001 | C0012634 |
| SRT | R-005AE | Finding | 404684003 | C0037088 |
| SRT | R-005E0 | Finding reported by patient/informant | 418799008 | C1689949 |
| SRT | F-03E55 | Functional performance and activity | 248536006 | C0424866 |
| SRT | F-01000 | Problem | 55607006 | C0033213 |

CID 3770 Problem Status

Type: Extensible
Version: 20070827

Table CID 3770. Problem Status

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------|----------------------|------------------------|
| SRT | R-42501 | Active problem | 394774009 | C1273826 |
| SRT | G-A270 | Chronic | 90734009 | C0205191 |
| SRT | G-A397 | Intermittent | 7087005 | C0205267 |
| SRT | G-A39A | Recurrent | 255227004 | C2945760 |
| SRT | G-A47B | Suspected | 415684004 | C0750491 |
| SRT | R-42502 | Inactive problem | 394775005 | C1273827 |
| SRT | F-04B88 | Problem resolved | 413322009 | C1446392 |
| SRT | G-A46B | Known absent | 410516002 | C1444640 |
| SRT | P0-30450 | Well controlled | 1194003 | C0184778 |

CID 3772 Health Status

Type: Extensible
Version: 20070827

Table CID 3772. Health Status

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | F-00001 | Alive and well | 81323004 | C0231162 |
| SRT | F-029D4 | In remission | 313386006 | C1277626 |
| SRT | R-209F6 | Symptom free | 162467007 | C0436342 |
| SRT | F-0600C | Chronically ill | 161901003 | C0581862 |
| SRT | F-06001 | Severely ill | 271593001 | C0424547 |
| SRT | F-00100 | Disabled | 21134002 | C0231170 |
| SRT | F-0351E | Severely disabled | 161045001 | C0424990 |
| SRT | F-04DA1 | Deceased | 419099009 | C1546956 |

CID 3773 Use Status

Type: Extensible
Version: 20070827

Table CID 3773. Use Status

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-D316 | Ended | 385656004 | C1272693 |
| SRT | G-D30F | Suspended | 385655000 | C1705537 |
| SRT | G-D30B | In progress | 385651009 | C1272688 |

CID 3774 Social History

Type: Extensible
Version: 20070827

Table CID 3774. Social History

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | F-93109 | Tobacco Smoking Behavior | 365981007 | C0453996 |
| SRT | F-931D4 | Drug misuse behavior | 228366006 | C0556386 |
| SRT | R-40C16 | Exercise | 256235009 | C0015259 |
| SRT | F-045CE | Nutrition | 364393001 | C1286103 |
| SRT | F-02573 | Alcohol consumption | 160573003 | C0001948 |

CID 3777 Implanted Devices

Type: Extensible
Version: 20070827

Table CID 3777. Implanted Devices

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | A-11100 | Cardiac pacemaker | 14106009 | C0030163 |
| SRT | A-11206 | Implantable defibrillator | 72506001 | C0162589 |
| SRT | A-11FCD | Left ventricular assist device | 360066001 | C0181598 |
| SRT | A-28040 | Insulin pump | 69805005 | C1140609 |

CID 3778 Stages

Type: Extensible
Version: 20081027

Table CID 3778. Stages

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-41177 | Stage 0 | 261613009 | C0441763 |
| SRT | R-41DA8 | Stage 1 | 258215001 | C0441766 |
| SRT | R-41DAC | Stage 2 | 258219007 | C0441767 |
| SRT | R-41DB0 | Stage 3 | 258224005 | C0441771 |
| SRT | R-41DB4 | Stage 4 | 258228008 | C0441772 |
| SRT | R-4117B | Stage 5 | 261617005 | C0441777 |

CID 3802 Plaque Structures

Type: Extensible
Version: 20051103

Table CID 3802. Plaque Structures

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | R-40448 | fibrous | 255423002 | C0439709 |
| SRT | M-50080 | fatty degeneration | 29185008 | C0152254 |
| SRT | M-55420 | pathologic calcification | 18115005 | C0006663 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------|----------------------|------------------------|
| SRT | M-72000 | hyperplasia | 76197007 | C0020507 |
| SRT | G-A265 | non-calcified | 17589002 | C0332209 |
| SRT | G-A660 | mixed | 26242008 | C0205430 |

CID 3804 Stenosis Measurement Methods

Type: Extensible
Version: 20051103

Table CID 3804. Stenosis Measurement Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------|
| DCM | 122655 | NASCET |
| DCM | 122656 | ECST |
| DCM | 122650 | Area Based Method |
| DCM | 122651 | Diameter Based Method |

CID 3805 Stenosis Types

Type: Extensible
Version: 20051103

Table CID 3805. Stenosis Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| SRT | D3-81100 | arteriosclerotic vascular disease | 72092001 | C0003850 |
| SRT | M-01460 | compression | 71173004 | C0332459 |
| SRT | R-40448 | fibrous | 255423002 | C0439709 |
| SRT | D3-80505 | Raynaud's disease | 195295006 | C0034734 |
| SRT | M-300F2 | entrapment | 363563002 | C1285497 |
| SRT | D3-80650 | vasculitis | 31996006 | C0042384 |
| SRT | R-423C3 | thrombosis | 264579008 | C0040053 |
| SRT | M-35300 | embolism | 55584005 | C1704212 |
| SRT | D3-80033 | cystic adventitial disease | 234021009 | C1306656 |

CID 3806 Stenosis Shape

Type: Extensible
Version: 20051103

Table CID 3806. Stenosis Shape

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-4047B | concentric | 255465008 | C0439744 |
| SRT | R-40416 | eccentric | 255380003 | C0439740 |

CID 3807 Volume Measurement Methods

Type: Extensible
Version: 20051103

Table CID 3807. Volume Measurement Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------|
| DCM | 122650 | Area Based Method |
| DCM | 122651 | Diameter Based Method |
| DCM | 122652 | Volume Based Method |

CID 3808 Aneurysm Types

Type: Extensible
Version: 20160314

Table CID 3808. Aneurysm Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | M-32270 | dissecting aneurysm | 26845001 | C0020449 |
| SRT | D3-80017 | inflammatory aneurysm | 261850007 | C0002950 |
| SRT | M-32201 | ruptured aneurysm | 22039006 | C0162869 |
| SRT | M-24614 | berry aneurysm | 125236003 | C0005136 |
| SRT | M-32240 | mixed aneurysm | 85726003 | C0333093 |
| SRT | M-32410 | racemose aneurysm | 14156004 | C0334533 |
| SRT | D3-80002 | cirroid aneurysm | 233982006 | C0334533 |
| SRT | M-32320 | mycotic aneurysm | 51668007 | C0085808 |
| SRT | M-32310 | miliary aneurysm | 43299000 | C0333097 |
| SRT | M-32340 | saccular aneurysm | 54002007 | C2713497 |
| SRT | M-32221 | varicose aneurysm | 57754000 | C0333091 |
| SRT | M-32350 | fusiform aneurysm | 85431000 | C0333099 |
| SRT | M-32210 | traumatic aneurysm | 110421000 | C1527161 |
| SRT | M-32202 | thrombosed aneurysm | 125271003 | C1265766 |
| SRT | M-32203 | expanding aneurysm | 125272005 | C1265767 |
| SRT | M-32204 | calcified aneurysm | 125273000 | C1265768 |
| SRT | M-32208 | multiple aneurysm | 125274006 | C1265769 |
| SRT | M-32360 | cylindroid aneurysm | 52856002 | C0333100 |
| SRT | M-32260 | serpentine aneurysm | 70984001 | C0333095 |

CID 3809 Associated Conditions

Type: Extensible
Version: 20160314

Table CID 3809. Associated Conditions

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | D6-90800 | Marfan's Syndrome | 19346006 | C0024796 |
| SRT | M-10000 | Traumatic Abnormality | 19130008 | C0221206 |

CID 3810 Vascular Morphology

Type: Extensible
Version: 20160314

Table CID 3810. Vascular Morphology

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | M-01470 | plaque | 1522000 | C0332461 |
| SRT | M-3400A | stenosis | 415582006 | C0009814 |
| SRT | M-32200 | aneurysm | 85659009 | C0002940 |
| SRT | D3-81310 | arterial dissection | 9406001 | C0002949 |
| SRT | A-25500 | stent | 65818007 | C0038257 |
| SRT | M-34000 | occlusion | 26036001 | C0028778 |
| SRT | M-39390 | arteriovenous fistula | 128617001 | C0003855 |
| SRT | M-91200 | angioma | 2099007 | C0018916 |
| SRT | M-32000 | dilatation | 25322007 | C0012359 |
| SRT | R-FAB5E | vascular coiling | 416061003 | C1562399 |
| SRT | M-31790 | tortuosity | 15690004 | C0333076 |
| SRT | M-32700 | diverticulum | 31113003 | C0012817 |
| SRT | M-520F8 | vascular sclerosis | 107671003 | C0003850 |
| SRT | M-35001 | thrombus | 396339007 | C0087086 |
| SRT | M-32390 | pseudoaneurysm | 22036004 | C1510412 |
| SRT | M-35300 | embolism | 55584005 | C1704212 |
| SRT | M-74880 | fibromuscular dysplasia | 31653004 | C0016052 |

CID 3813 Stent Findings

Type: Extensible
Version: 20160314

Table CID 3813. Stent Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | M-75300 | hypoplasia | 55199003 | C0243069 |
| SRT | M-3400A | stenosis | 415582006 | C0009814 |
| DCM | 122680 | endoleak | | |
| SRT | DD-661D2 | migration of implant or internal device | 370512004 | C1299914 |
| DCM | 122684 | stent disintegration | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| DCM | 122683 | stent fracture | | |

CID 3814 Stent Composition

Type: Extensible
Version: 20051103

Table CID 3814. Stent Composition

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------|----------------------|------------------------|
| SRT | A-25502 | metal stent | 257363003 | C0441290 |
| SRT | A-25501 | plastic stent | 257362008 | C0441289 |

CID 3815 Source of Vascular Finding

Type: Extensible
Version: 20160314

Table CID 3815. Source of Vascular Finding

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | D3-80515 | thrombosis | 118927008 | C0040053 |
| SRT | M-35300 | embolism | 55584005 | C1704212 |
| SRT | M-72000 | hyperplasia | 76197007 | C0020507 |
| SRT | D3-80650 | vasculitis | 31996006 | C0042384 |
| SRT | M-8FFFF | tumor | 108369006 | C0027651 |
| SRT | DF-00777 | trauma | 417746004 | C3263723 |
| SRT | G-B102 | surgical | 83578000 | C0543467 |
| SRT | R-422A4 | after procedure | 303110006 | C0580203 |

CID 3817 Vascular Sclerosis Types

Type: Extensible
Version: 20051103

Table CID 3817. Vascular Sclerosis Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | M-52450 | adventitial degeneration | 47631006 | C0333493 |
| SRT | M-52210 | arteriosclerosis with fibrinoid necrosis | 32651000 | C0333487 |
| SRT | M-52200 | arteriolosclerosis | 17941002 | C0333486 |
| SRT | M-52000 | arteriosclerosis | 28960008 | C0003850 |
| SRT | M-52100 | atheroma | 48434008 | C0264956 |
| SRT | M-52120 | atherosclerotic fibrous plaque | 20717008 | C0333483 |
| SRT | M-52101 | calcified atheromatous plaque | 29483008 | C0333479 |
| SRT | M-52102 | complicated atheromatous plaque | 74937006 | C0333480 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | M-52470 | cystic medical necrosis | 42182000 | C0392775 |
| SRT | M-52240 | elastic vascular sclerosis | 19952003 | C0333488 |
| SRT | M-52130 | fatty streaks | 53151000 | C0333484 |
| SRT | M-52300 | fibroelastosis | 72166006 | C0016038 |
| SRT | M-52302 | diffuse fibroelastosis | 125358004 | C1265866 |
| SRT | M-52301 | focal fibroelastosis | 125357009 | C1265865 |
| SRT | M-52500 | phleboscclerosis | 18016009 | C0333494 |
| SRT | M-52103 | ulcerated atheromatous plaque | 62189002 | C0333481 |
| SRT | M-52400 | vascular wall degeneration | 33593002 | C0333489 |

CID 3820 Non-invasive Vascular Procedures

Type: Extensible
Version: 20051103

Table CID 3820. Non-invasive Vascular Procedures

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | P5-0903A | vascular MRI | 241663008 | C0243032 |
| SRT | P5-09011 | cardiac MRI | 241620005 | C0412692 |
| SRT | P5-0807F | cardiovascular CT | 303680000 | C0581427 |
| SRT | P5-0802B | CT of abdominal aorta | 241553009 | C0412626 |
| SRT | P5-00A0D | trunk angiography | 303827001 | C0565173 |
| SRT | P5-009BF | peripheral angiography | 271993009 | C0412290 |

CID 3821 Papillary Muscle Included/Excluded

Type: Extensible
Version: 20051103

Table CID 3821. Papillary Muscle Included/Excluded

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------------|
| DCM | 122620 | Papillary Muscle Excluded |
| DCM | 122621 | Papillary Muscle Included |

CID 3823 Respiratory Status

Type: Extensible
Version: 20051103

Table CID 3823. Respiratory Status

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | F-20010 | inspiration | 14910006 | C0004048 |
| SRT | F-20020 | expiration | 58322009 | C0231800 |
| SRT | F-20030 | autonomous breathing | 45804006 | C0231802 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | R-40928 | Valsalva maneuver | 261039008 | C0042293 |
| DCM | 122612 | central breathing position | | |
| SRT | F-201BD | shallow breathing | 386616007 | C0221161 |

CID 3826 Heart Rhythm

Type: Extensible
Version: 20051103

Table CID 3826. Heart Rhythm

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | F-33300 | normal sinus rhythm | 64730000 | C0232202 |
| SRT | D3-31500 | atrial arrhythmia | 17366009 | C0085611 |
| SRT | D3-31715 | ventricular arrhythmia | 44103008 | C0085612 |

CID 3827 Vessel Segments

Type: Extensible
Version: 20051103

Table CID 3827. Vessel Segments

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| Include CID 12105 "Intracranial Cerebral Vessels" | | |
| Include CID 12106 "Intracranial Cerebral Vessels (Unilateral)" | | |
| Include CID 12104 "Extracranial Arteries" | | |
| Include CID 12109 "Lower Extremity Arteries" | | |
| Include CID 12110 "Lower Extremity Veins" | | |
| Include CID 12107 "Upper Extremity Arteries" | | |
| Include CID 12108 "Upper Extremity Veins" | | |
| Include CID 12115 "Renal Vessels" | | |
| Include CID 12111 "Abdominal Arteries (Lateral)" | | |
| Include CID 12112 "Abdominal Arteries (Unilateral)" | | |
| Include CID 12113 "Abdominal Veins (Lateral)" | | |
| Include CID 12114 "Abdominal Veins (Unilateral)" | | |
| Include CID 3015 "Coronary Arteries" | | |
| Include CID 3839 "Coronary Veins" | | |
| Include CID 3840 "Pulmonary Veins" | | |

CID 3829 Pulmonary Arteries

Type: Extensible
Version: 20110818

Table CID 3829. Pulmonary Arteries

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | T-44100 | Trunk of pulmonary artery | 45341000 | C0034052 |
| SRT | T-44010 | Suprapulmonic valve area | 79142001 | C0226052 |
| SRT | T-35250 | pulmonary valve sinuses | 90315007 | C0225946 |
| SRT | T-44400 | Left pulmonary artery | 50408007 | C0226069 |
| SRT | T-44200 | Right pulmonary artery | 78480002 | C0226054 |

Note

A previous version of this context group used terms with the SNOMED concept "entire" (see PS3.16-2011). The use of "structure" concepts rather than "entire" is described in Section 8.1.1.

CID 3831 Stenosis Length

Type: Extensible
Version: 20051103

Table CID 3831. Stenosis Length

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-404AC | long | 255511005 | C0205166 |
| SRT | R-4235F | short | 367450005 | C1806781 |

CID 3832 Stenosis Grade

Type: Extensible
Version: 20051103

Table CID 3832. Stenosis Grade

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A003 | severe | 24484000 | C0205082 |
| SRT | G-A002 | moderate | 6736007 | C0205081 |
| SRT | R-404FA | mild | 255604002 | C2945599 |

CID 3833 Cardiac Ejection Fraction

Type: Extensible
Version: 20051103

Table CID 3833. Cardiac Ejection Fraction

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|---|------------------------|
| LN | 8810-4 | Left ventricular ejection fraction by CT | C0488725 |
| LN | 8817-9 | Right ventricular ejection fraction by CT | C0488733 |
| LN | 8811-2 | Left ventricular ejection fraction by MR | C0488726 |
| LN | 8818-7 | Right ventricular ejection fraction by MR | C0488734 |

CID 3835 Cardiac Volume Measurements

Type: Extensible
Version: 20051103

Table CID 3835. Cardiac Volume Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Equivalent LOINC Code Value |
|------------------------------|------------|---------------|----------------------|------------------------|-----------------------------|
| Include CID 3468 "ED Volume" | | | | | |
| Include CID 3469 "ES Volume" | | | | | |
| SRT | F-32120 | Stroke Volume | 90096001 | C0038455 | 20562-5 |

CID 3836 Time-based Perfusion Measurements

Type: Extensible
Version: 20051103

Table CID 3836. Time-based Perfusion Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------|
| DCM | 122631 | Signal Earliest Peak Time |
| DCM | 122633 | Signal Increase Start Time |
| DCM | 122634 | Signal Time to Peak |
| DCM | 122638 | Signal Baseline Start |
| DCM | 122639 | Signal Baseline End |

CID 3837 Fiducial Feature

Type: Extensible
Version: 20051103

Table CID 3837. Fiducial Feature

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | R-4215C | Ostium | 264114003 | C0444567 |
| SRT | T-46600 | Renal Artery | 2841007 | C0035065 |
| SRT | T-42580 | Aortic Bifurcation | 73166001 | C0226027 |
| SRT | R-10258 | Common Iliac Bifurcation | 413896006 | C1531837 |

CID 3838 Diameter Derivation

Type: Extensible
Version: 20051103

Table CID 3838. Diameter Derivation

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---------------------------------|------------|--------------------|----------------------|------------------------|
| Include CID 3488 "Min/Max/Mean" | | | | |
| SRT | G-A117 | Transverse | 62824007 | C0205106 |
| DCM | 122675 | Anterior-Posterior | | |

CID 3839 Coronary Veins

Type: Extensible
Version: 20110818

Table CID 3839. Coronary Veins

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | T-48340 | Azygos Vein | 72107004 | C0004526 |
| SRT | T-48410 | Coronary Sinus | 90219004 | C0456944 |
| SRT | T-48420 | Great Cardiac Vein | 5928000 | C0226659 |
| SRT | T-48435 | Small Cardiac Vein | 49082002 | C0226661 |
| SRT | T-48403 | Anterior Cardiac Vein | 194996006 | C0226662 |
| SRT | T-48406 | Atrial Vein | 195164009 | C0226666 |
| SRT | T-48407 | Atrioventricular Vein | 195496005 | C0226668 |
| SRT | T-48430 | Middle Cardiac Vein | 73580002 | C0226660 |
| SRT | T-48404 | Ventricular Vein | 195328002 | C0226667 |
| SRT | T-48405 | Smallest Cardiac Vein | 195073003 | C1279372 |

Note

A previous version of this context group used terms with the SNOMED concept "entire" (see PS3.16-2011). The use of "structure" concepts rather than "entire" is described in Section 8.1.1.

CID 3840 Pulmonary Veins

Type: Extensible
Version: 20110818

Table CID 3840. Pulmonary Veins

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | T-4858F | Pulmonary Vein | 430757002 | C2317442 |
| SRT | T-48502 | Left Pulmonary Vein | 27706005 | C0226670 |
| SRT | T-48540 | Inferior Left Pulmonary Vein | 51249003 | C0226686 |
| SRT | T-48530 | Superior Left Pulmonary Vein | 43863001 | C0226682 |
| SRT | T-48501 | Right Pulmonary Vein | 91539005 | C0226669 |
| SRT | T-48520 | Inferior Right Pulmonary Vein | 113273001 | C0226676 |
| SRT | T-48510 | Superior Right Pulmonary Vein | 8629005 | C0226671 |

Note

A previous version of this context group used terms with the SNOMED concept "entire" (see PS3.16-2011). The use of "structure" concepts rather than "entire" is described in Section 8.1.1.

CID 3843 Myocardial Subsegment

Type: Extensible
Version: 20051103

Table CID 3843. Myocardial Subsegment

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-427E6 | endocardial | 304059001 | C0014124 |
| SRT | R-40940 | epicardial | 261073003 | C0442016 |

CID 3850 Intravascular OCT Flush Agent

Type: Extensible
Version: 20110609

Table CID 3850. Intravascular OCT Flush Agent

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Trade Name (Informative) |
|--|------------|-------------------|----------------------|------------------------|--------------------------|
| SRT | C-A7220 | Dextran | 13132007 | C0086140 | |
| SRT | C-70841 | Saline | 262003004 | C0445115 | |
| SRT | C-70434 | Lactated Ringer's | 347379006 | C0073385 | |
| Include CID 12 "Radiographic Contrast Agent" | | | | | |

Note

Trade names are from <http://www.accessdata.fda.gov/scripts/cder/drugsatfda/index.cfm>.

CID 4005 Partial View Section for Mammography

Type: Non-Extensible
Version: 20050110

Table CID 4005. Partial View Section for Mammography

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-404CC | Anterior | 255549009 | C0205094 |
| SRT | R-404CE | Posterior | 255551008 | C0205095 |
| SRT | R-42191 | Superior | 264217000 | C1282910 |
| SRT | R-4094A | Inferior | 261089000 | C0542339 |
| SRT | R-404D5 | Medial | 255561001 | C0205098 |
| SRT | G-A104 | Lateral | 49370004 | C0205093 |
| SRT | G-A110 | Central | 26216008 | C0205099 |

CID 4009 DX Anatomy Imaged

Type: Extensible
Version: 20040114

Table CID 4009. DX Anatomy Imaged

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| Include CID 4031 "Common Anatomic Regions" | | |

CID 4010 DX View

Type: Extensible
Version: 20160314

Table CID 4010. DX View

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | R-10202 | frontal | 399033003 | C0442223 |
| SRT | R-10204 | frontal oblique | 399160007 | C1302231 |
| SRT | R-10206 | antero-posterior | 399348003 | C0442212 |
| SRT | R-10208 | antero-posterior oblique | 399312000 | C1302318 |
| SRT | R-10210 | right posterior oblique | 399038007 | C1275807 |
| SRT | R-10212 | left posterior oblique | 399006002 | C1275802 |
| SRT | R-40888 | postero-anterior | 272479007 | C0457409 |
| SRT | R-10216 | postero-anterior oblique | 399059000 | C1275812 |
| SRT | R-40985 | right anterior oblique | 399356000 | C1275852 |
| SRT | R-10220 | left anterior oblique | 399135007 | C1275823 |
| SRT | G-A145 | sagittal | 30730003 | C0205129 |
| SRT | R-10224 | medial-lateral | 399260004 | C1302283 |
| SRT | R-40783 | lateral oblique | 260427002 | C0442295 |
| SRT | R-10228 | lateral-medial | 399352003 | C1302336 |
| SRT | R-40782 | medial oblique | 260426006 | C0442294 |
| SRT | R-10232 | right lateral | 399198007 | C0442202 |
| SRT | R-10234 | right oblique | 399236003 | C0442291 |
| SRT | R-10236 | left lateral | 399173006 | C0442198 |
| SRT | R-10238 | left oblique | 399184004 | C0442288 |
| SRT | R-10241 | axial | 399061009 | C0442269 |
| SRT | R-10242 | cranio-caudal | 399162004 | C0442215 |
| SRT | R-10244 | caudo-cranial | 399196006 | C1302249 |
| SRT | R-10246 | oblique axial | 399004004 | C1302164 |
| SRT | R-10248 | oblique cranio-caudal | 399288005 | C1302302 |
| SRT | R-10250 | oblique caudo-cranial | 399225005 | C1302262 |
| SRT | R-10252 | frontal-oblique axial | 399132005 | C1275822 |
| SRT | R-10254 | sagittal-oblique axial | 399325008 | C1275850 |
| SRT | R-102C1 | oblique | 399182000 | C0442287 |
| SRT | R-102CD | lateral | 399067008 | C0442197 |
| SRT | R-102C2 | tangential | 399110001 | C0442227 |
| SRT | R-10256 | submentovertical | 399255003 | C0442244 |
| SRT | R-10257 | verticosubmental | 399360002 | C1302340 |
| SRT | R-102C3 | plantodorsal | 399071006 | C1302192 |
| SRT | R-102C4 | dorsoplantar | 399335002 | C1302328 |
| SRT | R-102C5 | parietoacanthial | 399272005 | C1302290 |
| SRT | R-102C6 | acanthioparietal | 399242004 | C1302273 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | R-102C7 | orbitoparietal | 399351005 | C1302335 |
| SRT | R-102C8 | parieto-orbital | 399316002 | C1302320 |
| SRT | R-10230 | latero-medial oblique | 399099002 | C1302201 |
| SRT | R-10226 | medio-lateral oblique | 399368009 | C1302345 |
| SRT | G-8300 | tissue specimen | 119376003 | C1292533 |
| SRT | R-40810 | Occlusal projection | 260499007 | C0442276 |

Note

1. In a prior version of this Context Group, Lateral Oblique was assigned the code R-10226, and Medial Oblique was assigned the code R-10230, as synonymous with Medio-Lateral Oblique and Latero-Medial Oblique, respectively. SNOMED currently distinguishes between LO and MLO, and between MO and LMO, although in most radiography contexts there is no practical distinction. Receiving applications should be aware that they may receive SOP Instances with the prior code assignments.
2. In a prior version of this Context Group, "right anterior oblique" was assigned the code R-10218, which in SNOMED is actually "Indirect iris transillumination"; this code has been replaced with the correct code R-40985.
3. In a prior version of this Context Group, a concept of "sagittal" was present with a code of R-10222, which in SNOMED is actually "Trypan blue"; this code has been replaced with the general SNOMED qualifier concept G-A145.

CID 4011 DX View Modifier

Type: Extensible
Version: 20070524

Table CID 4011. DX View Modifier

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | R-10244 | cephalad | 399196006 | C1302249 |
| SRT | R-10242 | caudad | 399162004 | C0442215 |
| SRT | R-40885 | transthoracic | 272476000 | C0442285 |
| SRT | R-4087B | transforaminal | 272466003 | C0442259 |
| SRT | G-D00B | transoral | 118438002 | C0442366 |
| SRT | R-40554 | transorbital | 278318001 | C0457460 |
| DCM | 111069 | Crosstable | | |
| SRT | R-421A4 | Mouth closed | 286866000 | C0564684 |

Note

In a prior version of this Context Group, the codes R-102C9, R-102CA, R-102CB, R-102CC, and R-102CE were specified for various concepts. Those codes are not actually in SNOMED, and their use in this context is deprecated. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.

CID 4012 Projection Eponymous Name

Type: Extensible
Version: 20070524

Table CID 4012. Projection Eponymous Name

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---------------------------------|-------------------|-------------------------------|-----------------------------|-------------------------------|
| SRT | R-10261 | Albers-Schonberg | 399142007 | C1302223 |
| SRT | R-10262 | Alexander | 399237007 | C1302270 |
| SRT | R-40A88 | Apple | 422670003 | C1827705 |
| SRT | R-10263 | Arcelin | 399218003 | C1302258 |
| SRT | R-10264 | Beclere | 399263002 | C1302284 |
| SRT | R-10265 | Bertel | 399362005 | C1302341 |
| SRT | R-10266 | Blackett-Healy | 399246001 | C1302276 |
| SRT | R-40809 | Brewerton projection | 260492003 | C0442271 |
| SRT | R-10267 | Broden | 399344001 | C1302332 |
| SRT | R-40A89 | Burman | 422861003 | C1828171 |
| SRT | R-10268 | Cahoon | 399278009 | C1302294 |
| SRT | R-10269 | Caldwell | 399358004 | C0442264 |
| SRT | R-1026A | Camp-Coventry | 399212002 | C1302254 |
| SRT | R-1026B | Causton | 399065000 | C1302190 |
| SRT | R-1026C | Chamberlain | 399148006 | C1302226 |
| SRT | R-1026D | Chassard-Lapine | 399013002 | C1302168 |
| SRT | R-1026E | Chausse | 399355001 | C1302338 |
| SRT | R-1026F | Cleaves | 399245002 | C1302275 |
| SRT | R-10270 | Clements | 399028002 | C1302177 |
| SRT | R-10271 | Clements-Nakayama | 399320003 | C1302322 |
| SRT | R-40A8A | Colcher-Sussman | 423091003 | C1827227 |
| SRT | R-40A8B | Danelius-Miller | 424811006 | C1828231 |
| SRT | R-10272 | Dunlap | 399303002 | C1302310 |
| SRT | R-40A8F | Eraso Modification | 424655003 | C1827856 |
| SRT | R-10273 | Ferguson | 399372008 | C1302349 |
| SRT | R-40A8C | Fisk | 424962005 | C1827093 |
| SRT | R-10274 | Fleischner | 399281004 | C1302296 |
| SRT | R-40A8D | Folio | 425157002 | C1827491 |
| SRT | R-10275 | Friedman | 399103007 | C1302203 |
| SRT | R-10276 | Fuchs | 399073009 | C1302193 |
| SRT | R-40A8E | Garth | 425188003 | C1827580 |
| SRT | R-10277 | Gaynor-Hart | 399082003 | C1302196 |
| SRT | R-10278 | Grandy | 399311007 | C1302317 |
| SRT | R-10279 | Grashey | 399146005 | C1302225 |
| SRT | R-1027A | Haas | 399341009 | C1302330 |
| SRT | R-4080A | Harris Beath axial projection | 260493008 | C0442308 |
| SRT | R-1027B | Henschen | 399199004 | C1302250 |
| SRT | R-1027C | Hickey | 399277004 | C1302293 |
| SRT | R-40A90 | Hirtz Modification | 424086005 | C1828045 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | R-1027D | Holly | 399129007 | C1302216 |
| SRT | R-1027E | Holmblad | 399285008 | C1302300 |
| SRT | R-1027F | Hough | 399168000 | C1302236 |
| SRT | R-10280 | Hsieh | 399083008 | C1302197 |
| SRT | R-10281 | Hughston | 399003005 | C1302163 |
| SRT | R-10282 | Isherwood | 399025004 | C0456593 |
| SRT | R-10283 | Judd | 399201002 | C1302252 |
| SRT | R-4080D | Judet projection | 260496000 | C0442309 |
| SRT | R-10284 | Kandel | 399152006 | C1302227 |
| SRT | R-10285 | Kasabach | 399280003 | C1302295 |
| SRT | R-10286 | Kemp Harper | 399227002 | C1302263 |
| SRT | R-40A91 | Kite | 425030002 | C1827203 |
| SRT | R-10287 | Kovacs | 399318001 | C1302321 |
| SRT | R-10288 | Kuchendorf | 399080006 | C1302195 |
| SRT | R-10289 | Kurzbauer | 399332004 | C1302327 |
| SRT | R-1028A | Laquerriere-Pierquin | 399156009 | C1302230 |
| SRT | R-1028B | Lauenstein | 399169008 | C1302237 |
| SRT | R-1028C | Law | 399206007 | C1302253 |
| SRT | R-1028D | Lawrence | 399179005 | C1302241 |
| SRT | R-1028E | Leonard-George | 398996004 | C1302159 |
| SRT | R-1028F | Lewis | 399037002 | C1302179 |
| SRT | R-10290 | Lilienfeld | 399342002 | C1302331 |
| SRT | R-10291 | Lindblom | 399308006 | C1302314 |
| SRT | R-10292 | Lorenz | 399251007 | C1302279 |
| SRT | R-10293 | Low-Beer | 399327000 | C1302324 |
| SRT | R-10294 | Lysholm | 399370000 | C1302347 |
| SRT | R-10295 | May | 399024000 | C1302174 |
| SRT | R-10296 | Mayer | 399000008 | C1302161 |
| SRT | R-10297 | Merchant | 399284007 | C1302299 |
| SRT | R-10298 | Miller | 399005003 | C1302165 |
| SRT | R-40A92 | Moore | 422568001 | C1827499 |
| SRT | R-4080E | Mortice projection | 260497009 | C0442274 |
| SRT | R-40A93 | Neer | 422795009 | C1828002 |
| SRT | R-10299 | Nolke | 399002000 | C1302162 |
| SRT | R-1029A | Norgaard | 399157000 | C0442275 |
| SRT | R-1029B | Ottonello | 399171008 | C1302238 |
| SRT | R-1029C | Pawlow | 399181007 | C1302242 |
| SRT | R-1029D | Pearson | 399365007 | C1302342 |
| SRT | R-1029E | Penner | 399138009 | C1302221 |
| SRT | R-1029F | Pirie | 399022001 | C1302172 |
| SRT | R-40A94 | Rafert | 423720000 | C1827152 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | R-40A95 | Rafert-Long | 422534007 | C1827402 |
| SRT | R-102A0 | Rhese | 399234000 | C1302268 |
| SRT | R-40A96 | Robert | 425035007 | C1827274 |
| SRT | R-40A97 | Rosenberg | 425042007 | C1827277 |
| SRT | R-102A1 | Schuller | 399290006 | C1302303 |
| SRT | R-102A2 | Settegast | 399243009 | C1302274 |
| SRT | R-102A3 | Staunig | 399098005 | C1302200 |
| SRT | R-102A4 | Stecher | 399292003 | C1302304 |
| SRT | R-102A5 | Stenvers | 399349006 | C0442232 |
| SRT | R-40A98 | Stryker | 422954003 | C1828322 |
| SRT | R-102A6 | Swanson | 399313005 | C1302319 |
| SRT | R-102A7 | Tarrant | 399247005 | C1302277 |
| SRT | R-102A8 | Taylor | 399296000 | C1302307 |
| SRT | R-102A9 | Teufel | 399127009 | C1302215 |
| SRT | R-102AA | Titterington | 399241006 | C1302272 |
| SRT | R-102AB | Towne | 399270002 | C0442265 |
| SRT | R-102AC | Twining | 399125001 | C1302214 |
| SRT | R-102AD | Valdini | 399330007 | C1302326 |
| SRT | R-40816 | Van Rosen projection | 260506009 | C0442286 |
| SRT | R-102AE | Waters | 414165007 | C1532733 |
| SRT | R-102AF | West Point | 399130002 | C1302217 |
| SRT | R-102B0 | Wigby-Taylor | 399215000 | C1302257 |
| SRT | R-40A99 | Wolf | 422996004 | C1828400 |
| SRT | R-102B1 | Zanelli | 399026003 | C1302175 |

CID 4013 Anatomic Region for Mammography

Type: Non-Extensible
Version: 20020904

Table CID 4013. Anatomic Region for Mammography

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | T-04000 | Breast | 76752008 | C0006141 |

CID 4014 View for Mammography

Type: Non-Extensible
Version: 20090717

Table CID 4014. View for Mammography

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | ACR MQCM 1999 Equivalent |
|--------------------------|------------|---------------|----------------------|------------------------|--------------------------|
| SRT | R-10224 | medio-lateral | 399260004 | C1302283 | ML |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | ACR MQCM 1999 Equivalent |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|--------------------------|
| SRT | R-10226 | medio-lateral oblique | 399368009 | C1302345 | MLO |
| SRT | R-10228 | latero-medial | 399352003 | C1302336 | LM |
| SRT | R-10230 | latero-medial oblique | 399099002 | C1302201 | LMO |
| SRT | R-10242 | cranio-caudal | 399162004 | C0442215 | CC |
| SRT | R-10244 | caudo-cranial (from below) | 399196006 | C1302249 | FB |
| SRT | R-102D0 | superolateral to inferomedial oblique | 399188001 | C1302245 | SIO |
| SRT | R-40AAA | inferomedial to superolateral oblique | 441555000 | C2711617 | ISO |
| SRT | R-1024A | cranio-caudal exaggerated laterally | 399192008 | C1302247 | XCCL |
| SRT | R-1024B | cranio-caudal exaggerated medially | 399101009 | C1302202 | XCCM |
| SRT | G-8310 | tissue specimen from breast | 127457009 | C0444070 | |

Note

1. In a prior version of this Context Group, Cranio-Caudal Exaggerated Laterally was assigned the code Y-X1770, and Cranio-Caudal Exaggerated Medially was assigned the code Y-X1771. Those codes are deprecated, as they are not valid SNOMED codes. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated codes, receiving applications should be aware of this change; see Annex J.
2. While SRT is the preferred Coding Scheme Designator for SNOMED, regulatory approval of mammography systems makes changes to such systems problematic. Implementers should be aware that many systems will continue to use the deprecated designator SNM3 for certain terms in this context group. It is recommended that implementations receiving Mammography Image or CAD SOP Instances support both SNM3 and SRT as equivalent Coding Scheme Designators for Attributes or Content Items that use this Context Group.
3. In a prior version of this Context Group, (R-102CF, SRT, "cranio-caudal exaggerated") was included. This is not a clinically applied view. Use of this term is deprecated, but receiving applications should be aware of its prior existence.

CID 4015 View Modifier for Mammography

Type: Non-Extensible
Version: 20090717

Table CID 4015. View Modifier for Mammography

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Applies only when View ACR MQCM 1999 Equivalent is: | ACR MQCM 1999 Equivalent |
|--------------------------|------------|-------------------|----------------------|------------------------|---|--------------------------|
| SRT | R-102D2 | Cleavage | 399161006 | C1302232 | CC or FB | CV |
| SRT | R-102D1 | Axillary Tail | 399011000 | C1302167 | MLO | AT |
| SRT | R-102D3 | Rolled Lateral | 399197002 | C1275832 | any | ...RL |
| SRT | R-102D4 | Rolled Medial | 399226006 | C1275838 | any | ...RM |
| SRT | R-102CA | Rolled Inferior | 414493004 | C1532323 | any | ...RI |
| SRT | R-102C9 | Rolled Superior | 415670009 | C1531911 | any | ...RS |
| SRT | R-102D5 | Implant Displaced | 399209000 | C1275834 | any | ...ID |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Applies only when View ACR MQCM 1999 Equivalent is: | ACR MQCM 1999 Equivalent |
|--------------------------|------------|----------------------|----------------------|------------------------|---|--------------------------|
| SRT | R-102D6 | Magnification | 399163009 | C1302233 | any | M... |
| SRT | R-102D7 | Spot Compression | 399055006 | C1302185 | any | S... |
| SRT | R-102C2 | Tangential | 399110001 | C0442227 | any | TAN |
| SRT | R-40AB3 | Nipple in profile | 442581004 | C2711408 | any | ...NP |
| SRT | P2-00161 | Anterior compression | 441752004 | C2711933 | any | ...AC |
| SRT | R-40ABE | Infra-mammary fold | 442593008 | C2711136 | any | ...IMF |
| SRT | R-40AB2 | Axillary tissue | 442580003 | C2711122 | any | ...AX |

Note

1. The View ACR MQCM 1999 Equivalent is defined in CID 4014 "View for Mammography".
2. Some applications and View Modifier ACR MQCM 1999 equivalents have been extended by DICOM to incorporate additional known clinical use cases. The View Modifier ACR MQCM 1999 equivalent indicates its use as a prefix (shown by trailing "...") or suffix (shown by preceding "...") to the View ACR MQCM 1999 equivalent, or replacement for the View ACR MQCM 1999 equivalent.
3. While SRT is the preferred Coding Scheme Designator for SNOMED, regulatory approval of mammography systems makes changes to such systems problematic. Implementers should be aware that many systems will continue to use the deprecated designator SNM3 for certain terms in this context group. It is recommended that implementations receiving Mammography Image or CAD SOP Instances support both SNM3 and SRT as equivalent Coding Scheme Designators for Attributes or Content Items that use this Context Group.

CID 4016 Anatomic Region for Intra-oral Radiography

Type: Non-Extensible
Version: 20150318

Table CID 4016. Anatomic Region for Intra-oral Radiography

| Coding Scheme Designator | Code Value | Code Meaning | SNODENT Code | SNOMED-CT Concept ID |
|--------------------------|------------|---------------------------------------|--------------|----------------------|
| SRT | T-D1213 | Jaw region | 100108D | 661005 |
| SRT | T-11170 | Maxilla | 108042D | 70925003 |
| SRT | T-11180 | Mandible | 144511D | 91609006 |
| SRT | T-54000 | Teeth, gums and supporting structures | 124191D | 28035005 |

Note

In a prior version of this table, the code T-D1217 was specified for the concept "Maxilla and mandible". The use of this code conflicts with its assignment to another concept in SNOMED, and its use in this context is deprecated. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.

CID 4017 Anatomic Region Modifier for Intra-oral Radiography

Type: Non-Extensible
Version: 20150318

Table CID 4017. Anatomic Region Modifier for Intra-oral Radiography

| Coding Scheme Designator | Code Value | Code Meaning | SNODENT Code | SNOMED-CT Concept ID |
|--------------------------|------------|------------------------|--------------|----------------------|
| SRT | R-FB322 | Central incisor region | 178934D | 699453001 |
| SRT | R-FB35C | Lateral incisor region | 178947D | 699511000 |
| SRT | R-FB35B | Canine region | 178952D | 699510004 |
| SRT | R-FB35A | First premolar region | 178968D | 699509009 |
| SRT | R-FB359 | Second premolar region | 178975D | 699508001 |
| SRT | R-FB358 | First molar region | 178981D | 699507006 |
| SRT | R-FB356 | Second molar region | 178999D | 699505003 |
| SRT | R-FB354 | Third molar region | 179005D | 699503005 |

Note

In a prior version of this table, SNOMED codes T-51005 through T-5100C were specified for various concepts. The use of these codes conflicts with their assignment to other concepts in SNOMED, and the set of concepts has been replaced. Also, SNOMED code T-5100D was specified for an Occlusal view; this code does not exist in SNOMED, and the concept is more properly considered as a view rather than an anatomic region, hence has been moved to CID 4010, and assigned the correct SNOMED code R-40810. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; the deprecated codes are included in Annex J.

CID 4018 Primary Anatomic Structure for Intra-oral Radiography (Permanent Dentition - Designation of Teeth)

Type: Non-Extensible
Version: 20150318

Table CID 4018. Primary Anatomic Structure for Intra-oral Radiography (Permanent Dentition - Designation of Teeth)

| Coding Scheme Designator | Code Value | Code Meaning | ISO 3950 Designation of Quadrant | ISO 3950 Designation of Tooth | SNODENT Code | SNOMED-CT Concept ID |
|--------------------------|------------|---------------------------------------|----------------------------------|-------------------------------|--------------|----------------------|
| SRT | T-54210 | Maxillary right third molar tooth | 1 | 8 | 133248D | 68085002 |
| SRT | T-54220 | Maxillary right second molar tooth | 1 | 7 | 109449D | 7121006 |
| SRT | T-54230 | Maxillary right first molar tooth | 1 | 6 | 104587D | 5140004 |
| SRT | T-54240 | Maxillary right second premolar tooth | 1 | 5 | 128425D | 36492000 |
| SRT | T-54250 | Maxillary right first premolar tooth | 1 | 4 | 138890D | 57826002 |
| SRT | T-54260 | Maxillary right canine tooth | 1 | 3 | 145111D | 80647007 |
| SRT | T-54270 | Maxillary right lateral incisor tooth | 1 | 2 | 116770D | 11712009 |
| SRT | T-54280 | Maxillary right central incisor tooth | 1 | 1 | 106397D | 22120004 |
| SRT | T-54290 | Maxillary left central incisor tooth | 2 | 1 | 125190D | 31982000 |
| SRT | T-54300 | Maxillary left lateral incisor tooth | 2 | 2 | 103484D | 25748002 |
| SRT | T-54310 | Maxillary left canine tooth | 2 | 3 | 108821D | 72876007 |
| SRT | T-54320 | Maxillary left first premolar tooth | 2 | 4 | 119834D | 61897005 |

| Coding Scheme Designator | Code Value | Code Meaning | ISO 3950 Designation of Quadrant | ISO 3950 Designation of Tooth | SNODENT Code | SNOMED-CT Concept ID |
|--------------------------|------------|--|----------------------------------|-------------------------------|--------------|----------------------|
| SRT | T-54330 | Maxillary left second premolar tooth | 2 | 5 | 126921D | 23226009 |
| SRT | T-54340 | Maxillary left first molar tooth | 2 | 6 | 135665D | 23427002 |
| SRT | T-54350 | Maxillary left second molar tooth | 2 | 7 | 130330D | 66303006 |
| SRT | T-54360 | Maxillary left third molar tooth | 2 | 8 | 136609D | 87704003 |
| SRT | T-54370 | Mandibular left third molar tooth | 3 | 8 | 129534D | 74344005 |
| SRT | T-54380 | Mandibular left second molar tooth | 3 | 7 | 101391D | 48402004 |
| SRT | T-54390 | Mandibular left first molar tooth | 3 | 6 | 109790D | 89625000 |
| SRT | T-54400 | Mandibular left second premolar tooth | 3 | 5 | 117536D | 24573005 |
| SRT | T-54410 | Mandibular left first premolar tooth | 3 | 4 | 138336D | 2400006 |
| SRT | T-54420 | Mandibular left canine tooth | 3 | 3 | 119269D | 39844006 |
| SRT | T-54430 | Mandibular left lateral tooth | 3 | 2 | 119276D | 77130001 |
| SRT | T-54440 | Mandibular left central incisor tooth | 3 | 1 | 116581D | 113278005 |
| SRT | T-54450 | Mandibular right central incisor tooth | 4 | 1 | 139525D | 15422005 |
| SRT | T-54460 | Mandibular right lateral incisor tooth | 4 | 2 | 113091D | 82628004 |
| SRT | T-54470 | Mandibular right canine tooth | 4 | 3 | 107357D | 47055002 |
| SRT | T-54480 | Mandibular right first premolar tooth | 4 | 4 | 144507D | 80140008 |
| SRT | T-54490 | Mandibular right second premolar tooth | 4 | 5 | 110784D | 8873007 |
| SRT | T-54500 | Mandibular right first molar tooth | 4 | 6 | 143324D | 28480000 |
| SRT | T-54510 | Mandibular right second molar tooth | 4 | 7 | 145772D | 40005008 |
| SRT | T-54520 | Mandibular right third molar tooth | 4 | 8 | 100566D | 38994002 |

CID 4019 Primary Anatomic Structure for Intra-oral Radiography (Deciduous Dentition - Designation of Teeth)

Type: Non-Extensible
Version: 20150318

Table CID 4019. Primary Anatomic Structure for Intra-oral Radiography (Deciduous Dentition - Designation of Teeth)

| Coding Scheme Designator | Code Value | Code Meaning | ISO 3950 Designation of Quadrant | ISO 3950 Designation of Tooth | SNODENT Code | SNOMED-CT Concept ID |
|--------------------------|------------|---|----------------------------------|-------------------------------|--------------|----------------------|
| SRT | T-54610 | Deciduous maxillary right central incisor tooth | 5 | 1 | 162619D | 245620002 |

| Coding Scheme Designator | Code Value | Code Meaning | ISO 3950 Designation of Quadrant | ISO 3950 Designation of Tooth | SNODENT Code | SNOMED-CT Concept ID |
|--------------------------|------------|--|----------------------------------|-------------------------------|--------------|----------------------|
| SRT | T-54620 | Deciduous maxillary right lateral incisor tooth | 5 | 2 | 162494D | 245619008 |
| SRT | T-54630 | Deciduous maxillary right canine tooth | 5 | 3 | 124018D | 30618001 |
| SRT | T-54640 | Deciduous maxillary right first molar tooth | 5 | 4 | 162234D | 245616001 |
| SRT | T-54650 | Deciduous maxillary right second molar tooth | 5 | 5 | 130574D | 27855007 |
| SRT | T-54660 | Deciduous maxillary left central incisor tooth | 6 | 1 | 108911D | 51678005 |
| SRT | T-54670 | Deciduous maxillary left lateral incisor tooth | 6 | 2 | 123818D | 43622005 |
| SRT | T-54680 | Deciduous maxillary left canine tooth | 6 | 3 | 140711D | 73937000 |
| SRT | T-54690 | Deciduous maxillary left first molar tooth | 6 | 4 | 141712D | 45234009 |
| SRT | T-54700 | Deciduous maxillary left second molar tooth | 6 | 5 | 112992D | 51943008 |
| SRT | T-54760 | Deciduous mandibular left central incisor tooth | 7 | 1 | 150298D | 89552004 |
| SRT | T-54770 | Deciduous mandibular left lateral incisor tooth | 7 | 2 | 134816D | 14770005 |
| SRT | T-54780 | Deciduous mandibular left canine tooth | 7 | 3 | 162441D | 245639007 |
| SRT | T-54790 | Deciduous mandibular left first molar tooth | 7 | 4 | 118147D | 38896004 |
| SRT | T-54800 | Deciduous mandibular left second molar tooth | 7 | 5 | 144621D | 49330006 |
| SRT | T-54710 | Deciduous mandibular right central incisor tooth | 8 | 1 | 120236D | 67834006 |
| SRT | T-54720 | Deciduous mandibular right lateral incisor tooth | 8 | 2 | 113281D | 22445006 |
| SRT | T-54730 | Deciduous mandibular right canine tooth | 8 | 3 | 105720D | 6062009 |
| SRT | T-54740 | Deciduous mandibular right first molar tooth | 8 | 4 | 162206D | 245631005 |
| SRT | T-54750 | Deciduous mandibular right second molar tooth | 8 | 5 | 107031D | 61868007 |

CID 4020 PET Radionuclide

Type: Extensible
Version: 20160119

Table CID 4020. PET Radionuclide

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | C-105A1 | ¹¹ C | 40565003 | C0302944 |
| SRT | C-107A1 | ¹³ N | 21576001 | C0302959 |
| SRT | C-1018C | ¹⁴ O | 424875009 | C1828369 |
| SRT | C-B1038 | ¹⁵ O | 129504001 | C1268556 |
| SRT | C-111A1 | ¹⁸ F | 77004003 | C0302995 |
| SRT | C-155A1 | ²² Na | 71633006 | C0303511 |
| SRT | C-135A4 | ³⁸ K | 423764008 | C1827255 |
| DCM | 126605 | ⁴³ Sc | | |
| DCM | 126600 | ⁴⁴ Sc | | |
| SRT | C-166A2 | ⁴⁵ Ti | 75696008 | C0303635 |
| DCM | 126601 | ⁵¹ Mn | | |
| SRT | C-130A1 | ⁵² Fe | 69089000 | C0303218 |
| SRT | C-149A1 | ⁵² Mn | 37225000 | C0303448 |
| DCM | 126607 | ^{52m} Mn | | |
| SRT | C-127A4 | ⁶⁰ Cu | 425364008 | C1827982 |
| SRT | C-127A1 | ⁶¹ Cu | 71425003 | C0303189 |
| SRT | C-127A5 | ⁶² Cu | 422934004 | C1828311 |
| SRT | C-141A1 | ⁶² Zn | 65054007 | C0303361 |
| SRT | C-127A2 | ⁶⁴ Cu | 3932008 | C0303190 |
| SRT | C-131A1 | ⁶⁶ Ga | 79477007 | C0303224 |
| SRT | C-131A3 | ⁶⁸ Ga | 35337001 | C0303226 |
| SRT | C-128A2 | ⁶⁸ Ge | 53315004 | C0303198 |
| DCM | 126602 | ⁷⁰ As | | |
| SRT | C-115A2 | ⁷² As | 2705002 | C0303037 |
| SRT | C-116A2 | ⁷³ Se | 87437000 | C0303047 |
| SRT | C-113A1 | ⁷⁵ Br | 17910003 | C0303008 |
| SRT | C-113A2 | ⁷⁶ Br | 79523006 | C1304532 |
| SRT | C-113A3 | ⁷⁷ Br | 86521004 | C0303010 |
| SRT | C-159A2 | ⁸² Rb | 79197006 | C0303554 |
| SRT | C-162A3 | ⁸⁶ Y | 10738001 | C0303592 |
| SRT | C-168A4 | ⁸⁹ Zr | 63360001 | C0303661 |
| DCM | 126603 | ⁹⁰ Nb | | |
| SRT | C-162A7 | ⁹⁰ Y | 14691008 | C0303596 |
| SRT | C-163AA | ^{94m} Tc | 424079002 | C1828040 |
| SRT | C-114A5 | ¹²⁴ I | 40937006 | C0303024 |
| DCM | 126606 | ¹⁵² Tb | | |

CID 4021 PET Radiopharmaceutical

Type: Extensible
Version: ~~20160419~~20170413

Table CID 4021. PET Radiopharmaceutical

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Other Names |
|--------------------------|------------|---------------------------|----------------------|------------------------|-------------------|
| DCM | 126752 | 28H1 ^89^Zr | | | |
| DCM | 126713 | 2FA F^18^ | | | FA-85380 |
| DCM | 126751 | 7D12 ^89^Zr | | | |
| DCM | 126750 | 7E11 ^89^Zr | | | |
| SRT | C-B1043 | Acetate C^11^ | 129513004 | C1098488 | |
| DCM | 126729 | AGN-150998 ^89^Zr | | | MP0112 |
| SRT | C-B103C | Ammonia N^13^ | 129508003 | C1268560 | |
| DCM | 126754 | Anti-B220 ^89^Zr | | | Anti-CD45R |
| DCM | 126700 | ATSM Cu^60^ | | | |
| DCM | 126701 | ATSM Cu^61^ | | | |
| DCM | 126702 | ATSM Cu^62^ | | | |
| SRT | C-B07DB | ATSM Cu^64^ | 422855001 | C1828021 | |
| DCM | 126722 | Benralizumab ^89^Zr | | | MEDI-563, KHK4563 |
| DCM | 126516 | Bevacizumab ^89^Zr | | | Avastin™ ^89^Zr |
| DCM | 126727 | Blinatumomab ^89^Zr | | | AMG103, MT103 |
| DCM | 126735 | Brentuximab ^89^Zr | | | Adcetris™ |
| SRT | C-B07DC | Butanol O^15^ | 422540000 | C1827030 | |
| SRT | C-B103B | Carbon dioxide O^15^ | 129507008 | C1268559 | |
| SRT | C-B1045 | Carbon monoxide C^11^ | 129515006 | C1268564 | |
| SRT | C-B103A | Carbon monoxide O^15^ | 129506004 | C1268558 | |
| SRT | C-B103F | Carfentanil C^11^ | 129511002 | C1268562 | |
| DCM | 126513 | Cetuximab ^89^Zr | | | Erbitux™ ^89^Zr |
| DCM | 126517 | cG250-F(ab')(2) ^89^Zr | | | |
| DCM | 126703 | Choline C^11^ | | | |
| DCM | 126715 | CLR1404 I^124^ | | | |
| DCM | 126716 | CLR1404 I^131^ | | | |
| DCM | 126746 | cMAb U36 ^89^Zr | | | |
| DCM | 126515 | cU36 ^89^Zr | | | |
| DCM | 126762 | Df-[FK](2) ^89^Zr | | | |
| DCM | 126763 | Df-[FK](2)-3PEG(4) ^89^Zr | | | |
| DCM | 126520 | Df-CD45 ^89^Zr | | | |
| DCM | 126760 | Df-FK ^89^Zr | | | |
| DCM | 126761 | Df-FK-PEG(3) ^89^Zr | | | |
| DCM | 126747 | DN30 ^89^Zr | | | |
| DCM | 126519 | E4G10 ^89^Zr | | | |
| DCM | 126732 | Ecromeximab ^89^Zr | | | KW-2871 |
| UMLS | C2713594 | Edotreotide Ga^68^ | | C2713594 | DOTATOC, SMT487 |
| SRT | C-B07DD | EDTA Ga^68^ | 423498000 | C1828067 | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Other Names |
|--------------------------|---------------------------|--|----------------------|------------------------|--------------------------|
| DCM | 126704 | Fallypride C ¹¹ ^ | | | |
| DCM | 126705 | Fallypride F ¹⁸ ^ | | | |
| DCM | 126706 | FLB 457 C ¹¹ ^ | | | |
| DCM SRT | 126501 C-D6858 | Florbetaben F ¹⁸ ^ | 712736002 | C3818757 | NeuroCeq™ |
| SRT | C-E0269 | Florbetapir F ¹⁸ ^ | 456995000 | C3475363 | AV-45, Amyvid™ |
| DCM | 126503 | Flubatine F ¹⁸ ^ | | | NCFHEB |
| DCM | 126712 | Flubatine F¹⁸^ | | | NCFHEB |
| SRT | C-E0265 | Fluciclatide F ¹⁸ ^ | 456999006 | C2987729 | |
| SRT | C-E026A | Fluciclovine F ¹⁸ ^ | 457000009 | C1311253 | |
| SRT | C-B07DE | Flumazenil C ¹¹ ^ | 423543007 | C1827653 | |
| SRT | C-B07DF | Flumazenil F ¹⁸ ^ | 422975006 | C1828330 | |
| SRT | C-B07E0 | Fluorethyltyrosin F ¹⁸ ^ | 424708001 | C1827913 | |
| SRT | C-B07E4 | Fluorobenzothiazole F ¹⁸ ^ | 423546004 | C1827131 | |
| SRT | C-E0273 | Fluorocholine F ¹⁸ ^ | 456992002 | C3531803 | |
| SRT | C-B1031 | Fluorodeoxyglucose F ¹⁸ ^ | 35321007 | C0046056 | |
| UMLS | C1831937 | Fluoroestradiol (FES) F ¹⁸ ^ | | C1831937 | |
| UMLS | C1541539 | Fluoroetanidazole F ¹⁸ ^ | | C1541539 | EF5 |
| SRT | C-B1034 | Fluoro-L-dopa F ¹⁸ ^ | 129500005 | C1268553 | |
| SRT | C-B07E2 | Fluoromethane F ¹⁸ ^ | 422763008 | C1827137 | |
| SRT | C-B07E1 | Fluoromisonidazole F ¹⁸ ^ | 422598008 | C1827349 | FMISO |
| UMLS | C2934038 | Fluoropropyl-dihydrotetrabenazine (DTBZ) F ¹⁸ ^ | | C2934038 | AV-133 |
| DCM | 126707 | Fluorotriopride F ¹⁸ ^ | | | |
| SRT | C-B07E3 | Fluorouracil F ¹⁸ ^ | 425236000 | C1827690 | |
| DCM | 126718 | Flurpiridaz F¹⁸^ | | | BMS-747158-02 |
| SRT | C-E0267 | Flutemetamol F ¹⁸ ^ | 456997008 | C2983948 | Vizamyl™ |
| DCM | 126748 | Fresolimumab ⁸⁹ ^Zr | | | GC1008 |
| DCM | 126731 | GA201 ⁸⁹ ^Zr | | | RG1760, RO5083945 |
| SRT | C-B1046 | Germanium Ge ⁶⁸ ^ | 129516007 | C1268565 | |
| DCM | 126724 | Glembatumumab vedotin ⁸⁹ ^Zr | | | CDX-011, CR011-vcMMAE |
| SRT | C-B103D | Glutamate N ¹³ ^ | 129509006 | C1268561 | |
| DCM | 126709 | Glutamine C ¹¹ ^ | | | |
| DCM | 126710 | Glutamine C ¹⁴ ^ | | | |
| DCM | 126711 | Glutamine F ¹⁸ ^ | | | |
| UMLS | C2981788 | ISO-1 F ¹⁸ ^ | | C2981788 | |
| DCM | 126514 | J591 ⁸⁹ ^Zr | | | |
| DCM | 126740 | Margetuximab ⁸⁹ ^Zr | | | MGAH22 |
| DCM | 126730 | MEDI-551 ⁸⁹ ^Zr | | | |
| SRT | C-B07E5 | Mespiperone C ¹¹ ^ | 424789007 | C1828032 | |
| SRT | C-B103E | Methionine C ¹¹ ^ | 129510001 | C0252667 | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Other Names |
|--------------------------|------------|----------------------------------|----------------------|------------------------|--------------------------------|
| DCM | 126738 | Mogamulizumab ^89^Zr | | | AMG761, KW-0761, Poteligeo™ |
| DCM | 126510 | Monoclonal Antibody (mAb) ^64^Cu | | | |
| DCM | 126511 | Monoclonal Antibody (mAb) ^89^Zr | | | |
| SRT | C-B07E6 | Monoclonal antibody I^124^ | 424874008 | C1827605 | |
| DCM | 126753 | Nanocolloidal albumin ^89^Zr | | | Nanocoll |
| DCM | 126714 | Nifene F^18^ | | | |
| DCM | 126721 | Obinituzimab ^89^Zr | | | Afutuzumab, Gazyva™ |
| DCM | 126723 | Ocaratuzumab ^89^Zr | | | AME-133v, LY2469298 |
| SRT | C-B1038 | Oxygen O^15^ | 129504001 | C1268556 | |
| SRT | C-B1039 | Oxygen-water O^15^ | 129505000 | C1268557 | |
| SRT | C-B1044 | Palmitate C^11^ | 129514005 | C1268563 | |
| DCM | 126736 | Panitumumab ^89^Zr | | | ABX-EGF, Vectibix™ |
| DCM | 126728 | Pegdinetanib ^89^Zr | | | BMS-844203, CT-322, Angiocept™ |
| DCM | 126725 | Pinatuzumab vedotin ^89^Zr | | | RG7593, DCDT2980S |
| DCM | 126500 | Pittsburgh compound B C^11^ | | | PIB |
| DCM | 126726 | Polatuzumab vedotin ^89^Zr | | | RG7596, DCDS4501A |
| SRT | C-B07E7 | PTSM Cu^62^ | 422789008 | C1827357 | |
| DCM | 126518 | R1507 ^89^Zr | | | |
| SRT | C-B1042 | Raclopride C^11^ | 129512009 | C0752264 | |
| DCM | 126742 | Ranibizumab ^89^Zr | | | Lucentis™ |
| DCM | 126737 | Rituximab ^89^Zr | | | IDEC-C2B8, Rituxan™ |
| DCM | 126755 | RO5323441 ^89^Zr | | | |
| DCM | 126756 | RO542908 ^89^Zr | | | |
| DCM | 126733 | Roledumab ^89^Zr | | | LFB-R593 |
| SRT | C-B1037 | Rubidium chloride Rb^82^ | 129503007 | C1268555 | |
| DCM | 126741 | SAR3419 ^89^Zr | | | |
| SRT | C-B1032 | Sodium fluoride F^18^ | 129501009 | C0304965 | |
| SRT | C-B07E8 | Sodium iodide I^124^ | 422980002 | C1828393 | |
| SRT | C-B1047 | Sodium Na^22^ | 129517003 | C1268566 | |
| SRT | C-B1033 | Spiperone F^18^ | 129499001 | C1268552 | |
| DCM | 126502 | T807 F^18^ | | | AV-1451 |
| DCM | 126717 | THK5351 F^18^ | | | |
| SRT | C-B1036 | Thymidine (FLT) F^18^ | 129502002 | C1268554 | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Other Names |
|--------------------------|------------|------------------------------|----------------------|------------------------|-------------------|
| DCM | 126512 | Trastuzumab ^89^Zr | | | Herceptin™ ^89^Zr |
| DCM | 126749 | TRC105 ^89^Zr | | | |
| UMLS | C1742831 | tyrosine-3-octreotate Ga^68^ | | C1742831 | DOTATATE |
| DCM | 126739 | Ublituximab ^89^Zr | | | LFB-R603, TG-1101 |
| DCM | 126734 | XmAb5574 ^89^Zr | | | MOR208 |

CID 4025 Primary Anatomic Structure for Intra-oral Radiography (Supernumerary Dentition - Designation of Teeth)

Type: Non-Extensible

Version: 20150318

Table CID 4025. Primary Anatomic Structure for Intra-oral Radiography (Supernumerary Dentition - Designation of Teeth)

| Coding Scheme Designator | Code Value | Code Meaning | SNODENT Code | SNOMED-CT Concept ID |
|--------------------------|------------|--|--------------|----------------------|
| SRT | R-FC4E0 | Supernumerary deciduous mandibular left canine tooth | 177552D | 707029006 |
| SRT | R-FC4DD | Supernumerary deciduous mandibular left central incisor tooth | 177292D | 707026004 |
| SRT | R-FC4E1 | Supernumerary deciduous mandibular left first molar tooth | 177421D | 707030001 |
| SRT | R-FC4DF | Supernumerary deciduous mandibular left lateral incisor tooth | 177318D | 707028003 |
| SRT | R-FC4E2 | Supernumerary deciduous mandibular left second molar tooth | 177704D | 707031002 |
| SRT | R-FC4DA | Supernumerary deciduous mandibular right canine tooth | 177387D | 707023007 |
| SRT | R-FC4DC | Supernumerary deciduous mandibular right central incisor tooth | 177450D | 707025000 |
| SRT | R-FC4D9 | Supernumerary deciduous mandibular right first molar tooth | 177758D | 707022002 |
| SRT | R-FC4DB | Supernumerary deciduous mandibular right lateral incisor tooth | 177466D | 707024001 |
| SRT | R-FC4D8 | Supernumerary deciduous mandibular right second molar tooth | 177302D | 707021009 |
| SRT | R-FC4D3 | Supernumerary deciduous maxillary left canine tooth | 177497D | 707016006 |
| SRT | R-FC4D1 | Supernumerary deciduous maxillary left central incisor tooth | 177736D | 707014009 |
| SRT | R-FC4D4 | Supernumerary deciduous maxillary left first molar tooth | 177715D | 707017002 |
| SRT | R-FC4D2 | Supernumerary deciduous maxillary left lateral incisor tooth | 177263D | 707015005 |

| Coding Scheme Designator | Code Value | Code Meaning | SNODENT Code | SNOMED-CT Concept ID |
|---------------------------------|-------------------|--|---------------------|-----------------------------|
| SRT | R-FC4D5 | Supernumerary deciduous maxillary left second molar tooth | 177581D | 707018007 |
| SRT | R-FC4CE | Supernumerary deciduous maxillary right canine tooth | 177575D | 707011001 |
| SRT | R-FC4D0 | Supernumerary deciduous maxillary right central incisor tooth | 177696D | 707013003 |
| SRT | R-FC4CD | Supernumerary deciduous maxillary right first molar tooth | 177360D | 707010000 |
| SRT | R-FC4CF | Supernumerary deciduous maxillary right lateral incisor tooth | 177620D | 707012008 |
| SRT | R-FC4CC | Supernumerary deciduous maxillary right second molar tooth | 177665D | 707009005 |
| SRT | R-FC4FD | Supernumerary permanent mandibular left canine tooth | 177523D | 707058009 |
| SRT | R-FC4FF | Supernumerary permanent mandibular left central incisor tooth | 177510D | 707060006 |
| SRT | R-FC4FA | Supernumerary permanent mandibular left first molar tooth | 177478D | 707055007 |
| SRT | R-FC4FC | Supernumerary permanent mandibular left first premolar tooth | 177631D | 707057004 |
| SRT | R-FC4FE | Supernumerary permanent mandibular left lateral incisor tooth | 177271D | 707059001 |
| SRT | R-FC4F9 | Supernumerary permanent mandibular left second molar tooth | 177677D | 707054006 |
| SRT | R-FC4FB | Supernumerary permanent mandibular left second premolar tooth | 177727D | 707056008 |
| SRT | R-FC4F7 | Supernumerary permanent mandibular left third molar tooth | 177743D | 707052005 |
| SRT | R-FC502 | Supernumerary permanent mandibular right canine tooth | 177341D | 707063008 |
| SRT | R-FC500 | Supernumerary permanent mandibular right central incisor tooth | 177285D | 707061005 |
| SRT | R-FC505 | Supernumerary permanent mandibular right first molar tooth | 177413D | 707066000 |
| SRT | R-FC503 | Supernumerary permanent mandibular right first premolar tooth | 177599D | 707064002 |
| SRT | R-FC501 | Supernumerary permanent mandibular right lateral incisor tooth | 177506D | 707062003 |
| SRT | R-FC506 | Supernumerary permanent mandibular right second molar tooth | 177432D | 707067009 |
| SRT | R-FC504 | Supernumerary permanent mandibular right second premolar tooth | 177409D | 707065001 |
| SRT | R-FC507 | Supernumerary permanent mandibular right third molar tooth | 177608D | 707068004 |
| SRT | R-FC4EF | Supernumerary permanent maxillary left canine tooth | 177356D | 707044007 |

| Coding Scheme Designator | Code Value | Code Meaning | SNODENT Code | SNOMED-CT Concept ID |
|--------------------------|------------|---|--------------|----------------------|
| SRT | R-FC4ED | Supernumerary permanent maxillary left central incisor tooth | 177762D | 707042006 |
| SRT | R-FC4F2 | Supernumerary permanent maxillary left first molar tooth | 177654D | 707047000 |
| SRT | R-FC4F0 | Supernumerary permanent maxillary left first premolar tooth | 177445D | 707045008 |
| SRT | R-FC4EE | Supernumerary permanent maxillary left lateral incisor tooth | 177683D | 707043001 |
| SRT | R-FC4F3 | Supernumerary permanent maxillary left second molar tooth | 177373D | 707048005 |
| SRT | R-FC4F1 | Supernumerary permanent maxillary left second premolar tooth | 177325D | 707046009 |
| SRT | R-FC4F4 | Supernumerary permanent maxillary left third molar tooth | 177568D | 707049002 |
| SRT | R-FC4E9 | Supernumerary permanent maxillary right canine tooth | 177339D | 707038008 |
| SRT | R-FC4EC | Supernumerary permanent maxillary right central incisor tooth | 177259D | 707041004 |
| SRT | R-FC4E6 | Supernumerary permanent maxillary right first molar tooth | 177534D | 707035006 |
| SRT | R-FC4E8 | Supernumerary permanent maxillary right first premolar tooth | 177612D | 707037003 |
| SRT | R-FC4EA | Supernumerary permanent maxillary right lateral incisor tooth | 177484D | 707039000 |
| SRT | R-FC4E4 | Supernumerary permanent maxillary right second molar tooth | 177649D | 707033004 |
| SRT | R-FC4E7 | Supernumerary permanent maxillary right second premolar tooth | 177547D | 707036007 |
| SRT | R-FC4E3 | Supernumerary permanent maxillary right third molar tooth | 177394D | 707032009 |

CID 4026 Primary Anatomic Structure for Intra-oral and Craniofacial Radiography - Teeth

Type: Non-Extensible
Version: 20150318

Table CID 4026. Primary Anatomic Structure for Intra-oral and Craniofacial Radiography - Teeth

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 4018 "Primary Anatomic Structure for Intra-oral Radiography (Permanent Dentition - Designation of Teeth)" | | |
| Include CID 4019 "Primary Anatomic Structure for Intra-oral Radiography (Deciduous Dentition - Designation of Teeth)" | | |
| Include CID 4025 "Primary Anatomic Structure for Intra-oral Radiography (Supernumerary Dentition - Designation of Teeth)" | | |

CID 4028 Craniofacial Anatomic Regions

Type: Extensible
Version: 20130617

Table CID 4028. Craniofacial Anatomic Regions

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | T-D006D | Bone structure of head and/or neck | 312779009 | C0730130 |
| SRT | T-11501 | Cervical spine | 122494005 | C0728985 |
| SRT | T-11156 | Ethmoid bone | 52374004 | C0015027 |
| SRT | T-AB100 | External ear | 28347008 | C0013453 |
| SRT | T-AA770 | Eyeball | 79652003 | C0229242 |
| SRT | T-D0801 | Eye region | 371398005 | C0015392 |
| SRT | T-11196 | Facial bones | 91397008 | C0015455 |
| SRT | T-11110 | Frontal bone | 74872008 | C0016732 |
| SRT | T-D1100 | Head | 69536005 | C0018670 |
| SRT | T-D1000 | Head and Neck | 774007 | C0460004 |
| SRT | T-11190 | Hyoid bone | 21387005 | C0020417 |
| SRT | T-AB700 | Inner ear | 22945000 | C0022889 |
| SRT | T-AB959 | Internal Auditory Canal | 361078006 | C1283773 |
| SRT | T-D1213 | Jaw region | 661005 | C0022359 |
| SRT | T-1115A | Lacrimal bone | 6229007 | C0222733 |
| SRT | T-24100 | Larynx | 4596009 | C0023078 |
| SRT | T-52000 | Lip | 48477009 | C0023759 |
| SRT | T-11180 | Mandible | 91609006 | C0024687 |
| SRT | T-11133 | Mastoid bone | 59066005 | C0446908 |
| SRT | T-11170 | Maxilla | 70925003 | C0024947 |
| SRT | T-AB300 | Middle ear | 25342003 | C0013455 |
| SRT | T-13100 | Muscle of head | 22688005 | C0224097 |
| SRT | T-13300 | Muscle of neck | 81727001 | C0027532 |
| SRT | T-11149 | Nasal bone | 74386004 | C0027422 |
| SRT | T-D1600 | Neck | 45048000 | C0027530 |
| SRT | T-11102 | Optic canal | 55024004 | C0450102 |
| SRT | T-D14AE | Orbital structure | 363654007 | C0029180 |
| SRT | T-11160 | Palatine bone | 51283005 | C0222734 |
| SRT | T-22000 | Paranasal sinus | 2095001 | C0030471 |
| SRT | T-11120 | Parietal bone | 24924006 | C0030558 |
| SRT | T-61007 | Salivary gland | 385294005 | C0036098 |
| SRT | T-11100 | Skull | 89546000 | C0037303 |
| SRT | T-51120 | Soft palate | 49460000 | C0030219 |
| SRT | T-11150 | Sphenoid bone | 73117003 | C0037884 |
| SRT | T-61300 | Submandibular gland | 54019009 | C0038556 |
| SRT | T-11130 | Temporal bone | 60911003 | C0039484 |
| SRT | T-15290 | Temporomandibular joint | 53620006 | C0039493 |
| SRT | T-53000 | Tongue | 21974007 | C0040408 |
| SRT | T-54010 | Tooth | 38199008 | C0040426 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | T-25000 | Trachea | 44567001 | C0040578 |
| SRT | T-11011 | Vertebral column and cranium | 110517009 | C1266914 |
| SRT | T-11166 | Zygoma | 13881006 | C0043539 |

CID 4030 CT, MR and PET Anatomy Imaged

Type: Extensible
Version: 20160314

Table CID 4030. CT, MR and PET Anatomy Imaged

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|-----------------------------|----------------------|------------------------|
| <i>Include CID 4031 "Common Anatomic Regions"</i> | | | | |
| SRT | T-42500 | Abdominal aorta | 7832008 | C0003484 |
| SRT | T-B3000 | Adrenal gland | 23451007 | C0001625 |
| SRT | T-42300 | Aortic arch | 57034009 | C0003489 |
| SRT | T-A0100 | Brain | 12738006 | C0006104 |
| SRT | T-45010 | Carotid Artery | 69105007 | C0007272 |
| SRT | T-A6000 | Cerebellum | 113305005 | C0007765 |
| SRT | T-45526 | Circle of Willis | 362047009 | C1284333 |
| SRT | T-43000 | Coronary artery | 41801008 | C0205042 |
| SRT | T-A0193 | Cranial venous system | 244391007 | C1280180 |
| SRT | T-41068 | Iliac and/or femoral artery | 299716001 | C0576469 |
| SRT | T-71000 | Kidney | 64033007 | C0022646 |
| SRT | T-62000 | Liver | 10200004 | C0023884 |
| SRT | T-65000 | Pancreas | 15776009 | C0030274 |
| SRT | T-B7000 | Parathyroid | 111002 | C0030518 |
| SRT | T-44000 | Pulmonary artery | 81040000 | C0034052 |
| SRT | T-46600 | Renal artery | 2841007 | C0035065 |
| SRT | T-C3000 | Spleen | 78961009 | C0037993 |
| SRT | T-94000 | Testis | 40689003 | C0039597 |
| SRT | T-42070 | Thoracic aorta | 113262008 | C1522460 |
| SRT | T-C8000 | Thymus | 9875009 | C0040113 |
| SRT | T-B6000 | Thyroid | 69748006 | C0040132 |
| SRT | T-83000 | Uterus | 35039007 | C0042149 |

CID 4031 Common Anatomic Regions

Type: Extensible
Version: 20160314

Table CID 4031. Common Anatomic Regions

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | T-D4000 | Abdomen | 113345001 | C0000726 |
| SRT | R-FAB57 | Abdomen and Pelvis | 416949008 | C1508499 |
| SRT | T-15420 | Acromioclavicular joint | 85856004 | C0001208 |
| SRT | T-15750 | Ankle joint | 70258002 | C0003087 |
| SRT | T-59900 | Anus | 53505006 | C0003461 |
| SRT | T-280A0 | Apex of Lung | 86598002 | C0225703 |
| SRT | T-60610 | Bile duct | 28273000 | C0005400 |
| SRT | T-74000 | Bladder | 89837001 | C0005682 |
| SRT | T-12700 | Bone of lower limb | 72001000 | C0448188 |
| SRT | T-D0821 | Bone of upper limb | 371195002 | C0003793 |
| SRT | T-04000 | Breast | 76752008 | C0006141 |
| SRT | T-26000 | Bronchus | 955009 | C0006255 |
| SRT | T-12770 | Calcaneus | 80144004 | C0006655 |
| SRT | T-11501 | Cervical spine | 122494005 | C0728985 |
| SRT | T-D00F7 | Cervico-thoracic spine | 297171002 | C0729373 |
| SRT | T-D3000 | Chest | 51185008 | C0817096 |
| SRT | R-FAB55 | Chest and Abdomen | 416550000 | C1442171 |
| SRT | R-FAB56 | Chest, Abdomen and Pelvis | 416775004 | C1562547 |
| SRT | T-12310 | Clavicle | 51299004 | C0008913 |
| SRT | T-11BF0 | Coccyx | 64688005 | C0009194 |
| SRT | T-59300 | Colon | 71854001 | C0009368 |
| SRT | T-58200 | Duodenum | 38848004 | C0013303 |
| SRT | T-15430 | Elbow joint | 16953009 | C0013770 |
| SRT | T-D0010 | Entire body | 38266002 | C0229960 |
| SRT | T-56000 | Esophagus | 32849002 | C0014876 |
| SRT | T-DD163 | Esophagus, stomach and duodenum | 110861005 | C1268410 |
| SRT | T-D0300 | Extremity | 66019005 | C0015385 |
| SRT | T-AA000 | Eye | 81745001 | C0015392 |
| SRT | T-D0801 | Eye region | 371398005 | C0700042 |
| SRT | T-11196 | Facial bones | 91397008 | C0015455 |
| SRT | T-12710 | Femur | 71341001 | C0015811 |
| SRT | T-12750 | Fibula | 87342007 | C0016068 |
| SRT | T-D8800 | Finger | 7569003 | C0016129 |
| SRT | T-D9700 | Foot | 56459004 | C0016504 |
| SRT | T-D8500 | Forearm | 14975008 | C0016536 |
| SRT | T-63000 | Gallbladder | 28231008 | C0016976 |
| SRT | T-D8700 | Hand | 85562004 | C0018563 |
| SRT | T-D1100 | Head | 69536005 | C0018670 |
| SRT | T-D1000 | Head and Neck | 774007 | C0460004 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | T-32000 | Heart | 80891009 | C0018787 |
| SRT | T-15710 | Hip joint | 29836001 | C0019558 |
| SRT | T-12410 | Humerus | 85050009 | C0020164 |
| SRT | T-58600 | Ileum | 34516001 | C0020885 |
| SRT | T-12340 | Ilium | 22356005 | C0020889 |
| SRT | T-AB959 | Internal Auditory Canal | 361078006 | C1283773 |
| SRT | T-D1213 | Jaw region | 661005 | C0022359 |
| SRT | T-58400 | Jejunum | 21306003 | C0022378 |
| SRT | T-D9200 | Knee | 72696002 | C0022742 |
| SRT | T-59000 | Large intestine | 14742008 | C0021851 |
| SRT | T-24100 | Larynx | 4596009 | C0023078 |
| SRT | T-D9400 | Lower leg | 30021000 | C1140621 |
| SRT | T-D9000 | Lower limb | 61685007 | C0023216 |
| SRT | T-11503 | Lumbar spine | 122496007 | C0024091 |
| SRT | T-D00F9 | Lumbo-sacral spine | 297173004 | C0574025 |
| SRT | T-11180 | Mandible | 91609006 | C0024687 |
| SRT | T-11133 | Mastoid bone | 59066005 | C0446908 |
| SRT | T-11170 | Maxilla | 70925003 | C0024947 |
| SRT | T-D3300 | Mediastinum | 72410000 | C0025066 |
| SRT | T-14668 | Muscle of lower limb | 102292000 | C0584890 |
| SRT | T-13600 | Muscle of upper limb | 30608006 | C0559498 |
| SRT | T-11149 | Nasal bone | 74386004 | C0027422 |
| SRT | T-D1600 | Neck | 45048000 | C0027530 |
| SRT | R-FAB52 | Neck and Chest | 417437006 | C1562459 |
| SRT | R-FAB53 | Neck, Chest and Abdomen | 416152001 | C1562378 |
| SRT | R-FAB54 | Neck, Chest, Abdomen and Pelvis | 416319003 | C1562776 |
| SRT | T-11102 | Optic canal | 55024004 | C0450102 |
| SRT | T-D14AE | Orbital structure | 363654007 | C0029180 |
| SRT | T-65600 | Pancreatic duct and bile duct systems | 110621006 | C1267614 |
| SRT | T-22000 | Paranasal sinus | 2095001 | C0030471 |
| SRT | T-61100 | Parotid gland | 45289007 | C0030580 |
| SRT | T-12730 | Patella | 64234005 | C0030647 |
| SRT | T-D6000 | Pelvis | 12921003 | C0030797 |
| SRT | R-FAB58 | Pelvis and lower extremities | 416631005 | C1562943 |
| DCM | 113681 | Phantom | | C0282611 |
| SRT | T-9200B | Prostate | 181422007 | C1278980 |
| SRT | T-59600 | Rectum | 34402009 | C0034896 |
| SRT | T-11300 | Rib | 113197003 | C0035561 |
| SRT | T-15680 | Sacroiliac joint | 39723000 | C0036036 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | T-11AD0 | Sacrum | 54735007 | C0036037 |
| SRT | T-12280 | Scapula | 79601000 | C0036277 |
| SRT | T-D1460 | Sella turcica | 42575006 | C0036609 |
| SRT | T-12980 | Sesamoid bones of foot | 58742003 | C0278418 |
| SRT | T-D2220 | Shoulder | 16982005 | C0037004 |
| SRT | T-11100 | Skull | 89546000 | C0037303 |
| SRT | T-58000 | Small intestine | 30315005 | C0021852 |
| SRT | T-D04FF | Spine | 421060004 | C0037949 |
| SRT | T-15610 | Sternoclavicular joint | 7844006 | C0038291 |
| SRT | T-11210 | Sternum | 56873002 | C0038293 |
| SRT | T-57000 | Stomach | 69695003 | C0038351 |
| SRT | T-61300 | Submandibular gland | 54019009 | C0038556 |
| SRT | T-15770 | Tarsal joint | 27949001 | C0039318 |
| SRT | T-15290 | Temporomandibular joint | 53620006 | C0039493 |
| SRT | T-D9100 | Thigh | 68367000 | C0039866 |
| SRT | T-11502 | Thoracic spine | 122495006 | C0581269 |
| SRT | T-D00F8 | Thoraco-lumbar spine | 297172009 | C0729374 |
| SRT | T-D8810 | Thumb | 76505004 | C0040067 |
| SRT | T-D9800 | Toe | 29707007 | C0040357 |
| SRT | T-25000 | Trachea | 44567001 | C0040578 |
| SRT | T-D8200 | Upper arm | 40983000 | C0446516 |
| SRT | T-D8000 | Upper limb | 53120007 | C1140618 |
| SRT | T-7000B | Upper urinary tract | 431491007 | C2317509 |
| SRT | T-73000 | Ureter | 87953007 | C0041951 |
| SRT | T-75000 | Urethra | 13648007 | C0041967 |
| SRT | T-88920 | Uterus and fallopian tubes | 110639002 | C1267676 |
| SRT | T-11011 | Vertebral column and cranium | 110517009 | C1266914 |
| SRT | T-15460 | Wrist joint | 74670003 | C1322271 |
| SRT | T-11166 | Zygoma | 13881006 | C0043539 |

Note

1. In a prior version of this table, the code T-D1217 was specified for the concept "Maxilla and mandible". The use of this code conflicts with its assignment to another concept in SNOMED, and its use in this context is deprecated. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.
2. In a prior version of this table, the code T-D8300 was used for T-15430, T-12402 for T-D8500, T-15710 for T-D2500, T-73800 for T-73000, and T-11167 for T-11166. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.

CID 4032 MR Spectroscopy Metabolites

Type: Extensible
Version: 20040322

Table CID 4032. MR Spectroscopy Metabolites

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 4033 "MR Proton Spectroscopy Metabolites"</i> | | |

CID 4033 MR Proton Spectroscopy Metabolites

Type: Extensible
Version: 20160314

Table CID 4033. MR Proton Spectroscopy Metabolites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | F-65C50 | N-acetylaspartate | 115391007 | C0067684 |
| SRT | F-61080 | Citrate | 59351004 | C0376259 |
| SRT | F-61620 | Choline | 65123005 | C0008405 |
| SRT | F-61380 | Creatine | 14804005 | C0010286 |
| DCM | 113094 | Creatine and Choline | | |
| SRT | F-61760 | Lactate | 83036002 | C0376261 |
| SRT | F-63600 | Lipid | 70106000 | C0023779 |
| DCM | 113095 | Lipid and Lactate | | |
| DCM | 113080 | Glutamate and glutamine | | |
| SRT | F-64210 | Glutamine | 25761002 | C0017797 |
| SRT | F-64460 | Tuarine | 10944007 | C0039350 |
| SRT | F-61A90 | Inositol | 72164009 | C0021547 |
| DCM | 113081 | Choline/Creatine Ratio | | |
| DCM | 113082 | N-acetylaspartate/Creatine Ratio | | |
| DCM | 113083 | N-acetylaspartate/Choline Ratio | | |
| DCM | 113096 | Creatine+Choline/Citrate Ratio | | |

Note

For the purpose of this context group, where possible, the resonance peak in the spectrum corresponding to a particular metabolite is described using the concept from SNOMED for the substance corresponding to the metabolite. E.g., the code used for "lipid" is the code for "lipid (substance) ", as this concept is effectively post-coordinated by its use in the Metabolite Map Code Sequence (0018,9083) to mean "lipid resonance peaks in MR spectroscopy".

CID 4040 Endoscopy Anatomic Regions

Type: Extensible
Version: 20160314

Table CID 4040. Endoscopy Anatomic Regions

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | T-D4000 | Abdomen | 113345001 | C0000726 |
| SRT | T-59490 | Anus, rectum and sigmoid colon | 110612005 | C1267595 |
| SRT | T-60610 | Bile duct | 28273000 | C0005400 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | T-74000 | Bladder | 89837001 | C0005682 |
| SRT | T-DD123 | Bladder and urethra | 110837003 | C1268386 |
| SRT | T-26000 | Bronchus | 955009 | C0006255 |
| SRT | T-83200 | Cervix | 71252005 | C0007874 |
| SRT | T-D3000 | Chest | 51185008 | C0817096 |
| SRT | T-DD163 | Esophagus, stomach and duodenum | 110861005 | C1268410 |
| SRT | T-AB200 | External auditory canal | 84301002 | C0013444 |
| SRT | T-63000 | Gallbladder | 28231008 | C0016976 |
| SRT | T-D7000 | Inguinal region | 26893007 | C0018246 |
| SRT | T-15001 | Joint | 39352004 | C0022417 |
| SRT | T-71000 | Kidney | 64033007 | C0022646 |
| SRT | T-D9200 | Knee | 72696002 | C0022742 |
| SRT | T-59000 | Large intestine | 14742008 | C0021851 |
| SRT | T-24100 | Larynx | 4596009 | C0023078 |
| SRT | T-40230 | Lumen of blood vessel | 91747007 | C0524424 |
| SRT | T-D3300 | Mediastinum | 72410000 | C0025066 |
| SRT | T-2300C | Nasopharynx | 360955006 | C1283682 |
| SRT | T-22000 | Paranasal sinus | 2095001 | C0030471 |
| SRT | T-55000 | Pharynx | 54066008 | C0031354 |
| SRT | T-20101 | Pharynx and larynx | 312535008 | C0729889 |
| SRT | T-59600 | Rectum | 34402009 | C0034896 |
| SRT | T-D2220 | Shoulder | 16982005 | C0037004 |
| SRT | T-59470 | Sigmoid colon | 60184004 | C0227391 |
| SRT | T-D04FF | Spine | 421060004 | C0037949 |
| SRT | T-DD006 | Trachea and bronchus | 110726009 | C1268276 |
| SRT | T-7000B | Upper urinary tract | 431491007 | C2317509 |
| SRT | T-73000 | Ureter | 87953007 | C0041951 |
| SRT | T-88920 | Uterus and fallopian tubes | 110639002 | C1267676 |

Note

1. See Annex I for examples of the relationship between anatomic regions and type of endoscopy performed.
2. In a prior version of this table, the code T-55002 was used for T-55000, and T-73800 for T-73000. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.

CID 4042 XA/XRF Anatomy Imaged

Type: Extensible
Version: 20050822

Table CID 4042. XA/XRF Anatomy Imaged

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 3010 "Cardiovascular Anatomic Locations"</i> | | |
| <i>Include CID 4031 "Common Anatomic Regions"</i> | | |

CID 4050 Drug or Contrast Agent Characteristics

Type: Extensible
Version: 20070124

Table CID 4050. Drug or Contrast Agent Characteristics

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | G-C52F | Active Ingredient | 127489000 | C1292749 |
| DCM | 121380 | Active Ingredient Undiluted Concentration | | |
| DCM | 121381 | Contrast/Bolus Ingredient Opaque | | |
| SRT | G-D705 | Volume | 118565006 | C0449468 |

CID 4051 General Devices

Type: Extensible
Version: 20160525

Table CID 4051. General Devices

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| <i>Include CID 8 "Angiographic Interventional Devices"</i> | | | | |
| <i>Include CID 3451 "Calibration Objects"</i> | | | | |
| <i>Include CID 4052 "Phantom Devices"</i> | | | | |
| SRT | A-10150 | Syringe | 61968008 | C0039142 |

CID 4052 Phantom Devices

Type: Extensible
Version: 20061023

Table CID 4052. Phantom Devices

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 113681 | Phantom |
| DCM | 113682 | ACR Accreditation Phantom - CT |
| DCM | 113683 | ACR Accreditation Phantom - MR |
| DCM | 113684 | ACR Accreditation Phantom - Mammography |
| DCM | 113685 | ACR Accreditation Phantom - Stereotactic Breast Biopsy |
| DCM | 113686 | ACR Accreditation Phantom - ECT |
| DCM | 113687 | ACR Accreditation Phantom - PET |
| DCM | 113688 | ACR Accreditation Phantom - ECT/PET |
| DCM | 113689 | ACR Accreditation Phantom - PET Faceplate |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------|
| DCM | 113690 | IEC Head Dosimetry Phantom |
| DCM | 113691 | IEC Body Dosimetry Phantom |
| DCM | 113692 | NEMA XR21-2000 Phantom |

CID 4100 T1 Measurement Methods

Type: Extensible
Version: 20141110

Table CID 4100. T1 Measurement Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------|
| DCM | 126350 | T1 by Multiple Flip Angles |
| DCM | 126351 | T1 by Inversion Recovery |
| DCM | 126352 | T1 by Fixed Value |

Note

CID 4101 Tracer Kinetic Models

Type: Extensible
Version: 20160316

Table CID 4101. Tracer Kinetic Models

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 126340 | Standard Tofts Model |
| DCM | 126341 | Extended Tofts Model |
| DCM | 126343 | First Pass Leakage Profile (FPLP) Model |
| DCM | 126344 | Shutter-Speed Model (SSM) |
| DCM | 126345 | Gamma Capillary Transit Time (GCTT) Model |
| DCM | 126346 | Adiabatic Tissue Homogeneity (ATH) Model |
| DCM | 126347 | Two Compartment Exchange (2CX) Model |

Note

CID 4102 Perfusion Measurement Methods

Type: Extensible
Version: 20141110

Table CID 4102. Perfusion Measurement Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 126300 | Perfusion analysis by Stable Xenon CT technique |
| DCM | 126301 | Perfusion analysis by IV Iodinated Contrast CT technique |
| DCM | 126302 | Perfusion analysis by Arterial Spin Labeling MR technique |
| DCM | 126303 | Perfusion analysis by Susceptibility MR technique |

Note

CID 4103 Arterial Input Function Measurement Methods

Type: Extensible
Version: 20141110

Table CID 4103. Arterial Input Function Measurement Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------|
| DCM | 126360 | AIF Ignored |
| DCM | 126361 | Population Averaged AIF |
| DCM | 126362 | User-defined AIF ROI |
| DCM | 126363 | Automatically Detected AIF ROI |
| DCM | 126364 | Blind Estimation of AIF |

Note

The anatomic location relevant to the application of any AIF method is not pre-coordinated in concepts in this Context Group. Typically these would be described by the Finding Site of any related measurements in the appropriate Template.

CID 4104 Bolus Arrival Time Derivation Methods

Type: Extensible
Version: 20141110

Table CID 4104. Bolus Arrival Time Derivation Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 126373 | Temporal Derivative Exceeds Threshold |
| DCM | 126370 | Time of Peak Concentration |
| DCM | 126372 | Time of Leading Half-Peak Concentration |

Note

CID 4105 Perfusion Analysis Methods

Type: Extensible
Version: 20141110

Table CID 4105. Perfusion Analysis Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 126310 | Least Mean Square (LMS) deconvolution |
| DCM | 126311 | Singular Value Decomposition (SVD) deconvolution |

Note

CID 4106 Quantitative Methods used for Perfusion And Tracer Kinetic Models

Type: Extensible
Version: 20141110

Table CID 4106. Quantitative Methods used for Perfusion And Tracer Kinetic Models

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--|
| Include CID 4100 "T1 Measurement Methods" | | |
| Include CID 4101 "Tracer Kinetic Models" | | |
| Include CID 4102 "Perfusion Measurement Methods" | | |
| Include CID 4103 "Arterial Input Function Measurement Methods" | | |
| Include CID 4104 "Bolus Arrival Time Derivation Methods" | | |
| Include CID 4105 "Perfusion Analysis Methods" | | |
| DCM | 126342 | Model-free concentration-time quantification |

Note

- Concepts from this context group may be used in measurement Templates to describe the measurement method of measurement on an ROI.

E.g., NUM (126312, DCM, "Ktrans") = 0.0185 /min; (G-C036, SRT, "Measurement Method") = (126341, DCM, "Extended Tofts Model")

CID 4107 Tracer Kinetic Model Parameters

Type: Extensible
Version: 20141110

Table CID 4107. Tracer Kinetic Model Parameters

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 126312 | Ktrans |
| DCM | 126313 | kep |
| DCM | 126314 | ve |
| DCM | 126330 | tau_m |
| DCM | 126331 | vp |

Note**CID 4108 Perfusion Model Parameters**

Type: Extensible
Version: 20161106

Table CID 4108. Perfusion Model Parameters

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------|
| DCM | 113055 | Regional Cerebral Blood Flow |
| DCM | 126390 | Regional Blood Flow |
| DCM | 113056 | Regional Cerebral Blood Volume |
| DCM | 126391 | Regional Blood Volume |
| DCM | 113052 | Mean Transit Time |
| DCM | 113069 | Time To Peak |
| DCM | 126392 | Oxygen Extraction Fraction |
| DCM | 113084 | Tmax |

Note

CID 4109 Model-Independent Dynamic Contrast Analysis Parameters

Type: Extensible
Version: 20150916

Table CID 4109. Model-Independent Dynamic Contrast Analysis Parameters

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 126320 | IAUC |
| DCM | 126321 | IAUC60 |
| DCM | 126322 | IAUC90 |
| DCM | 126323 | IAUC180 |
| DCM | 126324 | IAUCBN |
| DCM | 126325 | IAUC60BN |
| DCM | 126326 | IAUC90BN |
| DCM | 126327 | IAUC180BN |
| DCM | 126370 | Time of Peak Concentration |
| DCM | 126372 | Time of Leading Half-Peak Concentration |
| DCM | 126371 | Bolus Arrival Time |
| DCM | 113069 | Time To Peak |
| DCM | 126374 | Temporal Derivative Threshold |
| DCM | 126375 | Maximum Slope |
| DCM | 126376 | Maximum Difference |
| DCM | 126377 | Tracer Concentration |

Note

(126326, DCM, "IAUC90BN") can be used for DCE-MRI using a Gd-based contrast agent to represent the $IAUC_{BN}$ measurement in the claim of the QIBA DCE MRI Quantification Profile, though the concept itself is not specific to the modality or the contrast agent used. See https://www.rsna.org/QIBA_Protocols_and_Profiles.aspx. See also Ng, CS., et al. "Reproducibility of Perfusion Parameters in Dynamic Contrast-Enhanced MRI of Lung and Liver Tumors: Effect on Estimates of Patient Sample Size in Clinical Trials and on Individual Patient Responses." *AJR* 194, no. 2 (February 1, 2010): W134–40. <http://dx.doi.org/10.2214/AJR.09.3116>.

The type of contrast agent and the AIF used for blood normalization may or may not be post-coordinated.

E.g., voxel-wise $IAUC_{BN}$ measurements encoded as a parametric map with the quantity defined by the Quantity Definition Sequence (0040,9220) in a Real World Value Map might be encoded as:

(G-C1C6, SRT, "Quantity") = (126326, DCM, "IAUC90BN")

(G-C036, SRT, "Measurement Method") = (126362, DCM, "User-defined AIF ROI")

(123011, DCM, "Contrast Bolus/Agent") = (C-17800, SRT, "Gadolinium")

E.g., an $IAUC_{BN}$ measurement for an ROI encoded in a structured report might be encoded as:

NUM (126326, DCM, "IAUC90BN") = 0.230 (UNITS = ({normalized}, UCUM, "normalized"))

>HAS CONCEPT MOD: CODE (G-C036, SRT, "Measurement Method") = (126364, DCM, "Blind Estimation of AIF")

Note that the generic ROI measurement templates do not have the contrast/bolus agent as a parameter; this may be implicit from context, or inherited from the (121058, DCM, "Procedure reported") in the parent template.

CID 4110 Tracer Kinetic Modeling Covariates

Type: Extensible
Version: 20141110

Table CID 4110. Tracer Kinetic Modeling Covariates

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--------------|------------------------|
| LN | 20570-8 | Hematocrit | C0803379 |

CID 4111 Contrast Characteristics

Type: Extensible
Version: 20141110

Table CID 4111. Contrast Characteristics

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------------|
| DCM | 126380 | Contrast Longitudinal Relaxivity |

CID 4200 Ophthalmic Imaging Agent

Type: Extensible
Version: 20040921

Table CID 4200. Ophthalmic Imaging Agent

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | C-B02CC | Fluorescein | 350086004 | C0060520 |
| SRT | C-B0156 | Indocyanine green | 7292004 | C0021234 |
| SRT | C-B0295 | Rose Bengal | 330888007 | C0035857 |
| SRT | C-22853 | Trypan blue | 60441008 | C0041213 |
| SRT | C-B02C5 | Methylene blue | 354064008 | C0025746 |

CID 4201 Patient Eye Movement Command

Type: Extensible
Version: 20040921

Table CID 4201. Patient Eye Movement Command

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | R-1022D | Primary gaze | 408744005 | C1443287 |
| SRT | R-404BF | Upward gaze | 255533007 | C0439774 |
| SRT | R-404B9 | Left upgaze | 255525006 | C0439769 |
| SRT | R-404BC | Left gaze | 255530005 | C0439773 |
| SRT | R-404B7 | Left downgaze | 255523004 | C0439772 |
| SRT | R-404B6 | Downgaze | 255521002 | C0439777 |
| SRT | R-404B8 | Right downgaze | 255524005 | C0439763 |
| SRT | R-404BD | Right gaze | 255531009 | C0439765 |
| SRT | R-404BA | Right upgaze | 255526007 | C0439760 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | R-10227 | Convergent gaze | 408745006 | C1446614 |

CID 4202 Ophthalmic Photography Acquisition Device

Type: Extensible
Version: 20100607

Table CID 4202. Ophthalmic Photography Acquisition Device

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | R-1021A | Fundus Camera | 409898007 | C0179536 |
| SRT | A-2B201 | Slit Lamp Biomicroscope | 397247004 | C0183355 |
| SRT | R-1021B | External Camera | 409903006 | C1444146 |
| SRT | R-1021C | Specular Microscope | 409899004 | C1444145 |
| SRT | A-2B210 | Operating Microscope | 102321001 | C0181849 |
| SRT | A-00E8A | Scanning Laser Ophthalmoscope | 392001008 | C0392288 |
| SRT | R-1021D | Indirect Ophthalmoscope | 409901008 | C0182048 |
| SRT | R-1021E | Direct Ophthalmoscope | 409900009 | C0182047 |
| SRT | R-1021F | Ophthalmic Endoscope | 409902001 | C0493036 |
| SRT | A-00FCA | Keratoscope | 397522002 | C0181448 |
| SRT | A-00FF4 | Pupillograph | 420827006 | C0182567 |

CID 4203 Ophthalmic Photography Illumination

Type: Extensible
Version: 20100607

Table CID 4203. Ophthalmic Photography Illumination

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-1020E | Dual diffuse direct illumination | 410461001 | C1444589 |
| SRT | R-1020F | Fine slit beam direct illumination | 410462008 | C1444590 |
| SRT | R-10211 | Broad tangential direct illumination | 410463003 | C1444591 |
| SRT | R-10213 | Indirect sclerotic scatter illumination | 410464009 | C1444592 |
| SRT | R-10215 | Indirect retroillumination from the iris | 410465005 | C1444593 |
| SRT | R-10217 | Indirect retroillumination from the retina | 410466006 | C1444594 |
| SRT | R-10218 | Indirect iris transillumination | 410467002 | C1444595 |
| DCM | 111625 | Diffuse direct illumination | | |
| DCM | 111627 | Scotopic light | | |
| DCM | 111628 | Mesopic light | | |
| DCM | 111629 | Photopic light | | |
| DCM | 111630 | Dynamic light | | |

Reference: From the OPS web site: <http://www.opsweb.org/Op-Photo/SlitLamp/SL/SlitLamp.htm>

CID 4204 Ophthalmic Filter

Type: Extensible
Version: 20110112

Table CID 4204. Ophthalmic Filter

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | A-010E2 | Green optical filter | 445465004 | C2919396 |
| SRT | A-010DF | Red optical filter | 445279009 | C2919397 |
| SRT | A-010DA | Blue optical filter | 445084008 | C2919751 |
| SRT | A-010E0 | Yellow-green optical filter | 445340000 | C2919190 |
| SRT | A-010D8 | Blue-green optical filter | 422915004 | C1828251 |
| SRT | A-010DC | Infrared optical filter | 445169002 | C2919637 |
| SRT | A-010E1 | Polarizing optical filter | 445391002 | C2919554 |
| DCM | 111609 | No filter | | |

CID 4205 Ophthalmic Lens

Type: Extensible
Version: 20040921

Table CID 4205. Ophthalmic Lens

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | R-10219 | Indirect ophthalmoscopy lens | 409897002 | C1444144 |
| SRT | R-10239 | Concave contact fundus lens | 409783000 | C1444081 |
| SRT | R-1023A | Concave noncontact fundus lens | 410688004 | C1444761 |
| SRT | R-1023B | Contact fundus lens | 410686000 | C1444759 |
| SRT | A-00FAD | Goniolens | 389156006 | C1300255 |
| SRT | R-1023D | Convex noncontact fundus lens | 410687009 | C1444760 |
| SRT | R-1023E | Noncontact fundus lens | 410685001 | C1444758 |
| SRT | R-1023C | Convex contact fundus lens | 410689007 | C1444762 |

CID 4206 Ophthalmic Channel Description

Type: Extensible
Version: 20040921

Table CID 4206. Ophthalmic Channel Description

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------|----------------------|------------------------|
| SRT | G-A12F | Blue | 405738005 | C1260957 |
| SRT | R-102C0 | Full Spectrum | 414298005 | C1532530 |
| SRT | G-A11E | Green | 371246006 | C0332583 |
| SRT | R-102BE | Infrared | 414497003 | C1532326 |
| SRT | G-A11A | Red | 371240000 | C1260956 |
| SRT | G-A132 | Red free | 405739002 | C1319009 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-102BF | Ultraviolet | 415770004 | C1532472 |

CID 4207 Ophthalmic Image Position

Type: Extensible
Version: 20110825

Table CID 4207. Ophthalmic Image Position

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | R-10229 | Diabetic Retinopathy Study field 1 | 408734008 | C1443282 |
| SRT | R-1022A | Diabetic Retinopathy Study field 2 | 410434001 | C1444567 |
| SRT | R-1022B | Diabetic Retinopathy Study field 3 | 410435000 | C1444568 |
| SRT | R-1022C | Diabetic Retinopathy Study field 4 | 410436004 | C1444569 |
| SRT | R-1022E | Diabetic Retinopathy Study field 5 | 410437008 | C1444570 |
| SRT | R-1022F | Diabetic Retinopathy Study field 6 | 410438003 | C1444571 |
| SRT | R-10231 | Diabetic Retinopathy Study field 7 | 410439006 | C1444572 |
| DCM | 111621 | Field 1 for Joslin3 field | | |
| DCM | 111622 | Field 2 for Joslin 3 field | | |
| DCM | 111623 | Field 3 for Joslin 3 field | | |
| DCM | 111900 | Macula centered | | |
| DCM | 111901 | Disc centered | | |
| DCM | 111902 | Lesion centered | | |
| DCM | 111903 | Disc-macula centered | | |
| DCM | 111904 | Mid-peripheral-superior | | |
| DCM | 111905 | Mid-peripheral-superior temporal | | |
| DCM | 111906 | Mid-peripheral-temporal | | |
| DCM | 111907 | Mid-peripheral-inferior temporal | | |
| DCM | 111908 | Mid-peripheral-inferior | | |
| DCM | 111909 | Mid-peripheral-inferior nasal | | |
| DCM | 111910 | Mid-peripheral-nasal | | |
| DCM | 111911 | Mid-peripheral-superior nasal | | |
| DCM | 111912 | Peripheral-superior | | |
| DCM | 111913 | Peripheral-superior temporal | | |
| DCM | 111914 | Peripheral-temporal | | |
| DCM | 111915 | Peripheral-inferior temporal | | |
| DCM | 111916 | Peripheral-inferior | | |
| DCM | 111917 | Peripheral-inferior nasal | | |
| DCM | 111918 | Peripheral-nasal | | |
| DCM | 111919 | Peripheral-superior nasal | | |

CID 4208 Mydriatic Agent

Type: Extensible

Version: 20040921

Table CID 4208. Mydriatic Agent

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | C-677B9 | Atropine | 349947003 | C0360182 |
| SRT | C-677C0 | Homatropine | 82264009 | C0062922 |
| SRT | C-97520 | Cyclopentolate | 8348002 | C0010582 |
| SRT | C-68165 | Phenylephrine | 386693003 | C0717985 |
| SRT | C-97580 | Tropicamide | 9190005 | C0041190 |

CID 4209 Ophthalmic Anatomic Structure Imaged

Type: Extensible
Version: 20040921

Table CID 4209. Ophthalmic Anatomic Structure Imaged

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | T-AA050 | Anterior chamber of eye | 31636006 | C0003151 |
| SRT | T-AA180 | Both eyes | 40638003 | C0229118 |
| SRT | T-AA310 | Choroid of eye | 68703001 | C0008520 |
| SRT | T-AA400 | Ciliary body | 29534007 | C0008779 |
| SRT | T-AA860 | Conjunctiva | 29445007 | C0009758 |
| SRT | T-AA200 | Cornea | 28726007 | C0010031 |
| SRT | T-AA000 | Eye | 81745001 | C0015392 |
| SRT | T-AA810 | Eyelid | 80243003 | C0015426 |
| SRT | T-AA621 | Fovea centralis | 67046006 | C0016622 |
| SRT | T-AA500 | Iris | 41296002 | C0022077 |
| SRT | T-AA862 | Lacrimal caruncle | 43045000 | C0446860 |
| SRT | T-AA910 | Lacrimal gland | 13561001 | C0022907 |
| SRT | T-AA940 | Lacrimal sac | 3954005 | C0229289 |
| SRT | T-AA700 | Lens | 78076003 | C0023317 |
| SRT | T-AA830 | Lower Eyelid | 62736007 | C0229258 |
| SRT | T-45400 | Ophthalmic artery | 53549008 | C0029078 |
| SRT | T-AA630 | Optic nerve head | 81016008 | C0029127 |
| SRT | T-AA610 | Retina | 5665001 | C0035298 |
| SRT | T-AA110 | Sclera | 18619003 | C0036410 |
| SRT | T-AA820 | Upper Eyelid | 38934000 | C0585636 |

CID 4210 Ophthalmic Tomography Acquisition Device

Type: Extensible
Version: 20131014

Table CID 4210. Ophthalmic Tomography Acquisition Device

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | A-00FBE | Optical Coherence Tomography Scanner | 392012008 | C1271441 |
| SRT | R-FAB5A | Retinal Thickness Analyzer | 416567007 | C1562933 |
| SRT | A-00E8B | Confocal Scanning Laser Ophthalmoscope | 392004000 | C1271438 |
| DCM | 111626 | Scheimpflug Camera | | |
| SRT | A-00E8C | Scanning Laser Polarimeter | 392007007 | C1271440 |
| DCM | 111945 | Elevation-based corneal tomographer | | |
| DCM | 111946 | Reflection-based corneal topographer | | |
| DCM | 111947 | Interferometry-based corneal tomographer | | |

CID 4211 Ophthalmic OCT Anatomic Structure Imaged

Type: Extensible
Version: 20071016

Table CID 4211. Ophthalmic OCT Anatomic Structure Imaged

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | T-AA050 | Anterior chamber of eye | 31636006 | C0003151 |
| SRT | T-AA310 | Choroid of eye | 68703001 | C0008520 |
| SRT | T-AA400 | Ciliary body | 29534007 | C0008779 |
| SRT | T-AA860 | Conjunctiva | 29445007 | C0009758 |
| SRT | T-AA200 | Cornea | 28726007 | C0010031 |
| SRT | T-AA500 | Iris | 41296002 | C0022077 |
| SRT | T-AA700 | Lens | 78076003 | C0023317 |
| SRT | T-AA630 | Optic nerve head | 81016008 | C0029127 |
| SRT | T-AA610 | Retina | 5665001 | C0035298 |
| SRT | T-AA110 | Sclera | 18619003 | C0036410 |
| SRT | T-AA079 | Vitreous | 26386000 | C0229095 |
| SRT | T-AA220 | Corneal epithelium | 15775008 | C0459875 |
| SRT | T-AA260 | Corneal endothelium | 65431007 | C0014258 |

CID 4214 Ophthalmic Horizontal Directions

Type: Extensible
Version: 20080124

Table CID 4214. Ophthalmic Horizontal Directions

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-C028 | Inward | 255460003 | C0439786 |
| SRT | R-404C7 | Outward | 255543005 | C0439788 |

CID 4215 Ophthalmic Vertical Directions

Type: Extensible
Version: 20080124

Table CID 4215. Ophthalmic Vertical Directions

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-404BE | Up | 255532002 | C0547043 |
| SRT | R-404B3 | Down | 255518004 | C0205104 |

CID 4216 Ophthalmic Visual Acuity Type

Type: Extensible
Version: 20080124

Table CID 4216. Ophthalmic Visual Acuity Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| DCM | 111685 | Autorefraction Visual Acuity | | |
| DCM | 111686 | Habitual Visual Acuity | | |
| DCM | 111687 | Prescription Visual Acuity | | |
| SRT | F-04ECE | Potential Acuity Meter Visual Acuity | 424622008 | C1827765 |
| SRT | F-04D54 | Best Corrected Visual Acuity | 419775003 | C1690532 |
| SRT | F-04D53 | Uncorrected Visual Acuity | 420050001 | C1637380 |
| SRT | F-04D55 | Pinhole Visual Acuity | 419475002 | C1642831 |
| SRT | F-04ECF | Brightness Acuity Testing Visual Acuity | 425141002 | C1827482 |

CID 4220 Visual Fixation Quality During Acquisition

Type: Extensible
Version: 20090917

Table CID 4220. Visual Fixation Quality During Acquisition

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------|----------------------|------------------------|
| SRT | G-A555 | Steady | 55011004 | C0205361 |
| SRT | G-A556 | Not Steady | 103361006 | C0439829 |
| SRT | G-A385 | Indeterminate | 82334004 | C0205258 |

CID 4221 Visual Fixation Quality Problem

Type: Extensible
Version: 20090917

Table CID 4221. Visual Fixation Quality Problem

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------|----------------------|------------------------|
| DCM | 110518 | Patient Movement | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------|----------------------|------------------------|
| SRT | F-02FA4 | Eccentric Fixation | 251786004 | C0429578 |
| DCM | 110519 | Operator Error | | |
| DCM | 110501 | Equipment failure | | |

CID 4222 Ophthalmic Macular Grid Problem

Type: Extensible
Version: 20090917

Table CID 4222. Ophthalmic Macular Grid Problem

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|-----------------------------|----------------------|------------------------|
| Include CID 4221 "Visual Fixation Quality Problem" | | | | |
| SRT | F-0123A | Constricted Pupil | 301939004 | C0728710 |
| SRT | DA-73402 | Lens Opacity | 193570009 | C0086543 |
| SRT | DA-75300 | Corneal Opacity | 64634000 | C0010038 |
| SRT | DA-7931D | Vitreous Opacity | 422061002 | C0152006 |
| SRT | R-20839 | Poor Visual Fixation | 314348007 | C1277657 |
| SRT | DA-76000 | Eyelid Disease | 60113004 | C0015423 |
| DCM | 111695 | Interfering Tears or Drops | | |
| SRT | DA-74100 | Refractive Error | 39021009 | C0034951 |
| DCM | 111209 | Patient Positioning Problem | | |
| SRT | F-F1722 | Dry Eyes Problem | 162290004 | C0314719 |

CID 4230 Ophthalmic Ultrasound Axial Measurements Type

Type: Extensible
Version: 20100623

Table CID 4230. Ophthalmic Ultrasound Axial Measurements Type

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------|
| DCM | 111750 | Ultrasound Contact |
| DCM | 111751 | Ultrasound Immersion |

CID 4231 Lens Status

Type: Extensible
Version: 20100623

Table CID 4231. Lens Status

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------|----------------------|------------------------|
| SRT | DA-73410 | Aphakic | 24010005 | C0003534 |
| SRT | R-2073F | Phakic | 309649001 | C0587139 |
| SRT | A-040F7 | Phakic IOL | 397559001 | C1301524 |
| SRT | F-02087 | Piggyback IOL | 370951003 | C1299686 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | DA-73460 | Pseudophakia | 95217000 | C0684343 |

CID 4232 Vitreous Status

Type: Extensible
Version: 20100623

Table CID 4232. Vitreous Status

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | F-035F3 | Gas in vitreous cavity | 247094004 | C0423372 |
| SRT | DA-7930D | Post-Vitrectomy | 232077005 | C0339563 |
| SRT | F-035FD | Silicone Oil | 247095003 | C0423373 |
| SRT | T-AA092 | Vitreous Only | 372242005 | C1299205 |

CID 4233 Ophthalmic Axial Length Measurements Segment Names

Type: Extensible
Version: 20100623

Table CID 4233. Ophthalmic Axial Length Measurements Segment Names

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | T-AA200 | Cornea | 28726007 | C0010031 |
| SRT | T-AA050 | Anterior Chamber | 31636006 | C0003151 |
| DCM | 111778 | Single or Anterior Lens | | |
| DCM | 111779 | Posterior Lens | | |
| SRT | T-AA079 | Vitreous Cavity | 26386000 | C0229095 |

CID 4234 Refractive Surgery Types

Type: Extensible
Version: 20100623

Table CID 4234. Refractive Surgery Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | P1-A3102 | RK | 51683002 | C0022607 |
| SRT | P1-A3835 | PRK | 397516006 | C0395416 |
| SRT | P0-0526F | LASIK | 312965008 | C0752094 |
| SRT | P1-A3846 | LASEK | 414582004 | C1449939 |

CID 4235 Keratometry Descriptors

Type: Extensible
Version: 20100623

Table CID 4235. Keratometry Descriptors

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------|
| DCM | 111753 | Manual Keratometry |
| DCM | 111754 | Auto Keratometry |
| DCM | 111755 | Simulated Keratometry |
| DCM | 111756 | Equivalent K-reading |

CID 4236 IOL Calculation Formula

Type: Extensible
Version: 20100623

Table CID 4236. IOL Calculation Formula

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 111760 | Haigis |
| DCM | 111761 | Haigis-L |
| DCM | 111762 | Holladay 1 |
| DCM | 111763 | Holladay 2 |
| DCM | 111764 | Hoffer Q |
| DCM | 111765 | Olsen |
| DCM | 111766 | SRKII |
| DCM | 111767 | SRK-T |

CID 4237 Lens Constant Type

Type: Extensible
Version: 20100623

Table CID 4237. Lens Constant Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | F-048FA | A-Constant | 397263007 | C1301307 |
| DCM | 111768 | ACD Constant | | |
| DCM | 111769 | Haigis a0 | | |
| DCM | 111770 | Haigis a1 | | |
| DCM | 111771 | Haigis a2 | | |
| DCM | 111772 | Hoffer pACD Constant | | |
| DCM | 111773 | Surgeon Factor | | |

CID 4238 Refractive Error Types

Type: Extensible
Version: 20100623

Table CID 4238. Refractive Error Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | DA-74120 | Myopia | 57190000 | C0027092 |
| SRT | DA-74110 | Hyperopia | 38101003 | C0020490 |

CID 4239 Anterior Chamber Depth Definition

Type: Extensible
Version: 20100623

Table CID 4239. Anterior Chamber Depth Definition

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------------|
| DCM | 111776 | Front Of Cornea To Front Of Lens |
| DCM | 111777 | Back Of Cornea To Front Of Lens |

CID 4240 Ophthalmic Measurement or Calculation Data Source

Type: Extensible
Version: 20100623

Table CID 4240. Ophthalmic Measurement or Calculation Data Source

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------------|
| DCM | 111780 | Measurement From This Device |
| DCM | 113857 | Manual Entry |
| DCM | 111781 | External Data Source |
| DCM | 111782 | Axial Measurements SOP Instance |
| DCM | 111783 | Refractive Measurements SOP Instance |

CID 4241 Ophthalmic Axial Length Selection Method

Type: Extensible
Version: 20100623

Table CID 4241. Ophthalmic Axial Length Selection Method

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------|
| DCM | 121412 | Mean value chosen |
| DCM | 121410 | User chosen value |

CID 4243 Ophthalmic Quality Metric Type

Type: Extensible
Version: 20100623

Table CID 4243. Ophthalmic Quality Metric Type

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 111786 | Standard Deviation of measurements used |
| DCM | 111787 | Signal to Noise Ratio |

CID 4244 Ophthalmic Agent Concentration Units

Type: Extensible
Version: 20100623

Table CID 4244. Ophthalmic Agent Concentration Units

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| UCUM | % | Percent |
| UCUM | mg/ml | mg/ml |

CID 4245 Wide Field Ophthalmic Photography Transformation Method

Type: Extensible
Version: 20150326

Table CID 4245. Wide Field Ophthalmic Photography Transformation Method

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------|
| DCM | 111791 | Spherical projection |
| DCM | 111792 | Surface contour mapping |

CID 4250 Visual Field Static Perimetry Test Patterns

Type: Extensible
Version: 20100827

Table CID 4250. Visual Field Static Perimetry Test Patterns

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 111800 | Visual Field 24-2 Test Pattern |
| DCM | 111801 | Visual Field 10-2 Test Pattern |
| DCM | 111802 | Visual Field 30-2 Test Pattern |
| DCM | 111803 | Visual Field 60-4 Test Pattern |
| DCM | 111804 | Visual Field Macula Test Pattern |
| DCM | 111805 | Visual Field Central 40 Point Test Pattern |
| DCM | 111806 | Visual Field Central 76 Point Test Pattern |
| DCM | 111807 | Visual Field Peripheral 60 Point Test Pattern |
| DCM | 111808 | Visual Field Full Field 81 Point Test Pattern |
| DCM | 111809 | Visual Field Full Field 120 Point Test Pattern |
| DCM | 111810 | Visual Field G Test Pattern |
| DCM | 111811 | Visual Field M Test Pattern |
| DCM | 111812 | Visual Field 07 Test Pattern |
| DCM | 111813 | Visual Field LVC Test Pattern |
| DCM | 111814 | Visual Field Central Test Pattern |

CID 4251 Visual Field Static Perimetry Test Strategies

Type: Extensible
Version: 20100827

Table CID 4251. Visual Field Static Perimetry Test Strategies

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 111815 | Visual Field SITA-Standard Test Strategy |
| DCM | 111816 | Visual Field SITA-SWAP Test Strategy |
| DCM | 111817 | Visual Field SITA-Fast Test Strategy |
| DCM | 111818 | Visual Field Full Threshold Test Strategy |
| DCM | 111819 | Visual Field FastPac Test Strategy |
| DCM | 111820 | Visual Field Full From Prior Test Strategy |
| DCM | 111821 | Visual Field Optima Test Strategy |
| DCM | 111822 | Visual Field Two-Zone Test Strategy |
| DCM | 111823 | Visual Field Three-Zone Test Strategy |
| DCM | 111824 | Visual Field Quantify-Defects Test Strategy |
| DCM | 111825 | Visual Field TOP Test Strategy |
| DCM | 111826 | Visual Field Dynamic Test Strategy |
| DCM | 111827 | Visual Field Normal Test Strategy |
| DCM | 111828 | Visual Field 1-LT Test Strategy |
| DCM | 111829 | Visual Field 2-LT Test Strategy |
| DCM | 111830 | Visual Field LVS Test Strategy |
| DCM | 111831 | Visual Field GATE Test Strategy |
| DCM | 111832 | Visual Field GATEi Test Strategy |
| DCM | 111833 | Visual Field 2LT-Dynamic Test Strategy |
| DCM | 111834 | Visual Field 2LT-Normal Test Strategy |
| DCM | 111835 | Visual Field Fast Threshold Test Strategy |
| DCM | 111836 | Visual Field CLIP Test Strategy |
| DCM | 111837 | Visual Field CLASS Strategy |

CID 4252 Visual Field Static Perimetry Screening Test Modes

Type: Extensible
Version: 20100827

Table CID 4252. Visual Field Static Perimetry Screening Test Modes

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------------|
| DCM | 111838 | Age corrected |
| DCM | 111839 | Threshold related |
| DCM | 111840 | Single luminance |
| DCM | 111841 | Foveal sensitivity related |
| DCM | 111842 | Related to non macular sensitivity |
| DCM | 121410 | User chosen value |

CID 4253 Visual Field Static Perimetry Fixation Strategy

Type: Extensible
Version: 20100827

Table CID 4253. Visual Field Static Perimetry Fixation Strategy

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| DCM | 111843 | Automated Optical | | |
| DCM | 111844 | Blind Spot Monitoring | | |
| DCM | 111845 | Macular Fixation Testing | | |
| DCM | 111846 | Observation by Examiner | | |
| SRT | R-40775 | None | 260413007 | C0549184 |

CID 4254 Visual Field Static Perimetry Test Analysis Results

Type: Extensible
Version: 20100827

Table CID 4254. Visual Field Static Perimetry Test Analysis Results

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| DCM | 111847 | Outside normal limits | | |
| DCM | 111848 | Borderline | | |
| DCM | 111849 | Abnormally high sensitivity | | |
| DCM | 111850 | General reduction in sensitivity | | |
| DCM | 111851 | Borderline and general reduction in sensitivity | | |
| SRT | M-00101 | Within normal limits | 125112009 | C1265570 |

CID 4255 Visual Field Illumination Color

Type: Extensible
Version: 20100827

Table CID 4255. Visual Field Illumination Color

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A11D | Yellow | 371244009 | C0221205 |
| SRT | G-A12B | White | 371251000 | C0220938 |
| SRT | G-A11A | Red | 371240000 | C1260956 |
| SRT | G-A12F | Blue | 405738005 | C1260957 |
| SRT | G-A11E | Green | 371246006 | C0332583 |

CID 4256 Visual Field Procedure Modifier

Type: Extensible
Version: 20100827

Table CID 4256. Visual Field Procedure Modifier

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-42453 | Screening | 360156006 | C1305399 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-408C3 | Diagnostic | 261004008 | C0348026 |

CID 4257 Visual Field Global Index Name

Type: Extensible
Version: 20100827

Table CID 4257. Visual Field Global Index Name

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 111852 | Visual Field Index |
| DCM | 111853 | Visual Field Loss Due to Diffuse Defect |
| DCM | 111854 | Visual Field Loss Due to Local Defect |
| DCM | 111855 | Glaucoma Hemifield Test Analysis |
| DCM | 111856 | Optical Fixation Measurements |

CID 4260 Ophthalmic Mapping Units for Real World Value Mapping

Type: Extensible
Version: 20110825

Table CID 4260. Ophthalmic Mapping Units for Real World Value Mapping

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| UCUM | um | micrometer |

CID 4261 Ophthalmic Mapping Acquisition Method

Type: Extensible
Version: 20110825

Table CID 4261. Ophthalmic Mapping Acquisition Method

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------------|
| DCM | 111920 | Time domain |
| DCM | 111921 | Spectral domain |
| DCM | 111922 | No corneal compensation |
| DCM | 111923 | Corneal birefringence compensation |
| DCM | 111924 | Retinal topography |

CID 4262 Retinal Thickness Definition

Type: Extensible
Version: 20110825

Table CID 4262. Retinal Thickness Definition

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 111925 | Retinal nerve fiber layer thickness |
| DCM | 111926 | Ganglion cell complex thickness |
| DCM | 111927 | Total retinal thickness (ILM to IS-OS) |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------------|
| DCM | 111928 | Total retinal thickness (ILM to RPE) |
| DCM | 111929 | Total retinal thickness (ILM to BM) |

CID 4263 Ophthalmic Thickness Map Value Type

Type: Extensible
Version: 20110825

Table CID 4263. Ophthalmic Thickness Map Value Type

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 111930 | Absolute ophthalmic thickness |
| DCM | 111931 | Thickness deviation category from normative data |
| DCM | 111932 | Thickness deviation from normative data |

CID 4264 Ophthalmic Map Purposes of Reference

Type: Extensible
Version: 20110825

Table CID 4264. Ophthalmic Map Purposes of Reference

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 121311 | Localizer |
| DCM | 121322 | Source image for image processing operation |
| DCM | 111933 | Related ophthalmic thickness map |

CID 4265 Ophthalmic Thickness Deviation Categories

Type: Extensible
Version: 20110825

Table CID 4265. Ophthalmic Thickness Deviation Categories

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 111935 | p>5% |
| DCM | 111936 | p<5% |
| DCM | 111937 | p<2% |
| DCM | 111938 | p<1% |
| DCM | 111939 | p<0.5% |

CID 4266 Ophthalmic Anatomic Structure Reference Point

Type: Extensible
Version: ~~20131014~~20170413

Table CID 4266. Ophthalmic Anatomic Structure Reference Point

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | M-01000 | LesionMorphologically Abnormal Structure | 49755003 | C0332447 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------|----------------------|------------------------|
| SRT | M-01100 | Lesion | 52988006 | C0221198 |
| SRT | T-AA621 | Fovea centralis | 67046006 | C0016622 |
| SRT | T-AA630 | Optic nerve head | 81016008 | C0029127 |
| DCM | 111934 | Disc-Fovea | | |
| SRT | T-AA215 | Entire Cornea | 181162001 | C1278889 |

Note

(M-01000, SRT, "Morphologically Abnormal Structure") was previously described with a Code Meaning of "Lesion", but that synonym has been retired as "inappropriate" in SNOMED. The Code Meaning has been replaced with the preferred SNOMED term, and the separate concept (M-01100, SRT, "Lesion") added.

CID 4267 Corneal Topography Mapping Units for Real World Value Mapping

Type: Extensible
Version: 20131014

Table CID 4267. Corneal Topography Mapping Units for Real World Value Mapping

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| UCUM | um | micrometer |
| UCUM | diop | diopters |
| UCUM | mm | mm |

CID 4268 Corneal Topography Map Value Type

Type: Extensible
Version: 20131014

Table CID 4268. Corneal Topography Map Value Type

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------------------|
| DCM | 111940 | Corneal axial power map |
| DCM | 111941 | Corneal instantaneous power map |
| DCM | 111942 | Corneal refractive power map |
| DCM | 111943 | Corneal elevation map |
| DCM | 111944 | Corneal wavefront map |

CID 4270 OCT-A Processing Algorithm Families

Type: Extensible
Version: 20170405

Table CID 4270. OCT-A Processing Algorithm Families

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------|
| DCM | 128252 | OCT-A amplitude decorrelation |
| DCM | 128253 | OCT-A complex variance |
| DCM | 128254 | OCT-A speckle variance |
| DCM | 128255 | OCT-A correlation mapping |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------|
| DCM | 128256 | Doppler OCT-A |

CID 4271 En Face Image Types

Type: Extensible
Version: 20170405

Table CID 4271. En Face Image Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 128257 | Retina depth encoded vasculature flow |
| DCM | 128258 | Retina depth encoded structural reflectance map |
| DCM | 128259 | Retina vasculature flow |
| DCM | 128260 | Retina structural reflectance map |
| DCM | 128261 | Vitreous vasculature flow |
| DCM | 128262 | Vitreous structural reflectance map |
| DCM | 128263 | Radial peripapillary vasculature flow |
| DCM | 128264 | Radial peripapillary structural reflectance map |
| DCM | 128265 | Superficial retina vasculature flow |
| DCM | 128266 | Superficial retina structural reflectance map |
| DCM | 128267 | Middle inner retina vasculature flow |
| DCM | 128268 | Middle inner structural reflectance map |
| DCM | 128269 | Deep retina vasculature flow |
| DCM | 128270 | Deep retina structural reflectance map |
| DCM | 128271 | Outer retina vasculature flow |
| DCM | 128272 | Outer retina structural reflectance map |
| DCM | 128273 | Choriocapillaris vasculature flow |
| DCM | 128274 | Choriocapillaris structural reflectance map |
| DCM | 128275 | Choroid vasculature flow |
| DCM | 128276 | Choroid structural reflectance map |
| DCM | 128277 | Whole eye vasculature flow |
| DCM | 128278 | Whole eye structural reflectance map |

CID 4272 Opt Scan Pattern Types

Type: Extensible
Version: 20170405

Table CID 4272. OPT Scan Pattern Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------|
| DCM | 128279 | Cube B-scan pattern |
| DCM | 128280 | Raster B-scan pattern |
| DCM | 128281 | Line B-scan pattern |
| DCM | 128282 | Radial B-scan pattern |
| DCM | 128283 | Cross B-scan pattern |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------------|
| DCM | 128284 | Circle B-scan pattern |
| DCM | 128285 | Concentric circle B-scan pattern |
| DCM | 128286 | Circle-raster B-scan pattern |
| DCM | 128287 | Circle-radial B-scan pattern |
| DCM | 128288 | Grid B-scan pattern |

CID 4273 Retinal Segmentation Surfaces

Type: Extensible
Version: 20170405

Table CID 4273. Retinal Segmentation Surfaces

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-AA62D | ILM - Internal limiting membrane | 280677004 | C0459664 |
| DCM | 128289 | Outer surface of RNFL | | |
| DCM | 128290 | Outer surface of GCL | | |
| DCM | 128291 | Outer surface of IPL | | |
| DCM | 128292 | Outer surface of INL | | |
| DCM | 128293 | Outer surface of OPL | | |
| DCM | 128294 | Outer surface of HFL | | |
| SRT | T-AA650 | ELM - External limiting membrane | 76710003 | C0229209 |
| DCM | 128295 | Surface between Inner and Outer Segments of the photoreceptors | | |
| DCM | 128296 | Surface of the interdigitating zone between retina and RPE | | |
| DCM | 128297 | Anterior surface of the RPE | | |
| DCM | 128298 | Surface of the center of the RPE | | |
| DCM | 128299 | Posterior surface of the RPE | | |
| DCM | 128300 | Outer surface of the BM | | |
| DCM | 128301 | Surface of the choroid-sclera interface | | |
| DCM | 128302 | Outer surface of the CC | | |

CID 5000 Languages

Context Group ID 5000 comprises the language tag coding scheme of [RFC 5646]. The Coding Scheme Designator (0008,0102) shall be RFC5646.

Note

- The [RFC 5646] coding scheme is constructed from a primary subtag component encoded using the shortest language codes of [ISO 639], plus codes for extensions for languages not represented in [ISO 639]. The code optionally includes additional subtag components, for scripts encoded using the four letter codes of [ISO 15924], and for regions encoded using the two letter country codes of [ISO 3166].
- [RFC 5646] may be obtained at <http://www.ietf.org/rfc/rfc5646.txt>. [RFC 5646] obsoletes [RFC 4646], [RFC 3066] and [RFC 1766], but is forward compatible with those specifications. In previous editions of the Standard, [RFC 4646] codes

were used with a Coding Scheme Designator of IETF4646. [RFC 5646] is a superset of [RFC 4646], which formalizes support for [ISO 639-3].

3. [ISO 639] codes may be obtained at <http://www.loc.gov/standards/iso639-2/langhome.html>.
4. The two letter country codes of [ISO 3166] may be obtained at <https://www.iso.org/obp/ui/#search/code/>
5. IANA language tag registrations may be obtained at <http://www.iana.org/assignments/language-subtag-registry/language-subtag-registry>
6. In previous editions of the Standard, this Context Group formerly included the three letter language codes of [ISO 639-2]/B, using Coding Scheme Designator ISO639_2, or the language codes of [RFC 3066], using Coding Scheme Designator RFC3066, and several IANA-registered language code extensions, using Coding Scheme Designator IANARFC1766.
7. In previous editions of the Standard, this Context Group provided only language identifiers, with national or regional variant identified in a separate attribute or Content Item.

CID 5001 Countries

Context Group ID 5001 comprises the two letter country code scheme of ISO 3166. The Coding Scheme Designator (0008,0102) shall be ISO3166_1.

Note

The two letter country codes of ISO 3166 may be obtained at <https://www.iso.org/obp/ui/#search/code/>

CID 5002 Organizations

Context Group ID 5002 comprises the object identifier scheme of ISO 8824-1 and ISO 9834-1, when applied to organizational identifiers (see Section 8.2). The Coding Scheme Designator (0008,0102) shall be ISO_OID.

CID 6000 Overall Breast Composition

Note

In future extensions, Overall Breast Composition terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20020904

Table CID 6000. Overall Breast Composition

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 6001 "Overall Breast Composition from BI-RADS®"</i> | | |

CID 6001 Overall Breast Composition from BI-RADS®

Note

From BI-RADS® Third Edition (National Mammography Database, E77)

Type: Extensible
Version: 20020904

Table CID 6001. Overall Breast Composition from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------|----------------------|------------------------|
| SRT | F-01711 | Almost entirely fat | 129716005 | C0231248 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | F-01712 | Scattered fibroglandular densities | 129717001 | C0544447 |
| SRT | F-01713 | Heterogeneously dense | 129718006 | C0231249 |
| SRT | F-01714 | Extremely dense | 129719003 | C1268647 |

CID 6002 Change Since Last Mammogram or Prior Surgery

Note

In future extensions, Change Since Last Mammogram or Prior Surgery terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20020904

Table CID 6002. Change Since Last Mammogram or Prior Surgery

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 6003 "Change Since Last Mammogram or Prior Surgery from BI-RADS®" | | |

CID 6003 Change Since Last Mammogram or Prior Surgery from BI-RADS®

Note

From BI-RADS® Third Edition (National Mammography Database, E79)

Type: Extensible
Version: 20020904

Table CID 6003. Change Since Last Mammogram or Prior Surgery from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | F-01721 | New finding | 129721008 | C1268649 |
| SRT | F-01722 | Finding partially removed | 129722001 | C1268650 |
| SRT | F-01723 | No significant changes in the finding | 129723006 | C1268651 |
| SRT | M-02520 | Increase in size | 15454001 | C0332509 |
| SRT | M-02530 | Decrease in size | 19776001 | C0332511 |
| SRT | F-01726 | Increase in number of calcifications | 129726003 | C1268654 |
| SRT | F-01727 | Decrease in number of calcifications | 129727007 | C1268655 |
| SRT | F-01728 | Less defined | 129728002 | C1268656 |
| SRT | F-01729 | More defined | 129729005 | C1268657 |
| SRT | F-0172A | Removal of implant since previous mammogram | 129730000 | C1268658 |
| SRT | F-0172B | Implant revised since previous mammogram | 129731001 | C1268659 |

CID 6004 Mammography Characteristics of Shape

Note

In future extensions, Mammography Characteristics of Shape terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20020904

Table CID 6004. Mammography Characteristics of Shape

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 6005 "Characteristics of Shape from BI-RADS®" | | |

CID 6005 Characteristics of Shape from BI-RADS®

Note

From BI-RADS® Third Edition (National Mammography Database, E80)

Type: Extensible
Version: 20020904

Table CID 6005. Characteristics of Shape from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------|----------------------|------------------------|
| SRT | M-02100 | Round shape | 42700002 | C0332490 |
| SRT | M-02120 | Ovoid shape (Oval) | 84360004 | C0332492 |
| SRT | G-A640 | Lobular | 40266001 | C0205417 |
| SRT | G-A402 | Irregular | 49608001 | C0205271 |

CID 6006 Mammography Characteristics of Margin

Note

In future extensions, Mammography Characteristics of Margin terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20020904

Table CID 6006. Mammography Characteristics of Margin

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| Include CID 6007 "Characteristics of Margin from BI-RADS®" | | |

CID 6007 Characteristics of Margin from BI-RADS®

Note

From BI-RADS®

Type: Extensible
Version: 20050822

Table CID 6007. Characteristics of Margin from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | F-01741 | Circumscribed lesion | 129738007 | C1268666 |
| SRT | F-01742 | Microlobulated lesion | 129739004 | C1268667 |
| SRT | F-01743 | Obscured lesion | 129740002 | C1268668 |
| SRT | F-01744 | Indistinct lesion | 129741003 | C1268669 |
| SRT | F-01745 | Spiculated lesion | 129742005 | C1268670 |
| DCM | 111343 | Angular margins | | |

CID 6008 Density Modifier

Note

In future extensions, Density Modifier terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20020904

Table CID 6008. Density Modifier

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 6009 "Density Modifier from BI-RADS®"</i> | | |

CID 6009 Density Modifier from BI-RADS®

Note

From BI-RADS® Third Edition (National Mammography Database, E82)

Type: Extensible
Version: 20020904

Table CID 6009. Density Modifier from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | F-01751 | High density lesion | 129744006 | C1268672 |
| SRT | F-01752 | Equal density (isodense) lesion | 129745007 | C1268673 |
| SRT | F-01753 | Low density (not containing fat) lesion | 129746008 | C1268674 |
| SRT | F-01754 | Fat containing (radiolucent) lesion | 129747004 | C1268675 |

CID 6010 Mammography Calcification Types

Note

In future extensions, Mammography Calcification Types terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20020904

Table CID 6010. Mammography Calcification Types

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 6011 "Calcification Types from BI-RADS®"</i> | | |

CID 6011 Calcification Types from BI-RADS®

Note

From BI-RADS®

Type: Extensible
Version: 20050822

Table CID 6011. Calcification Types from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | F-01761 | Coarse (popcorn-like) calcification | 129749001 | C1268677 |
| SRT | F-01762 | Dystrophic calcification | 129750001 | C0333582 |
| SRT | F-01763 | Eggshell calcification | 129751002 | C1313950 |
| SRT | F-01764 | Large rod-like calcification | 129752009 | C1268678 |
| SRT | F-01765 | Milk of calcium calcification | 129753004 | C1268679 |
| SRT | F-01766 | Lucent-centered calcification | 129754005 | C1268680 |
| SRT | F-01767 | Punctate calcification | 129755006 | C1265883 |
| SRT | F-01768 | Round shaped calcification | 129756007 | C1268681 |
| SRT | F-01769 | Calcified skin of breast | 129757003 | C1268682 |
| SRT | F-0176A | Calcified suture material | 129758008 | C1268683 |
| SRT | F-0176B | Vascular calcification | 129759000 | C1268684 |
| SRT | F-0176C | Amorphous calcification | 129760005 | C1268685 |
| SRT | F-0176D | Fine, linear (casting) calcification | 129761009 | C1268686 |
| SRT | F-0176E | Fine linear, branching (casting) calcification | 129762002 | C1268687 |
| SRT | F-0176F | Heterogeneous calcification | 129763007 | C1268688 |
| DCM | 111344 | Fine pleomorphic calcification | | |
| SRT | D7-90435 | Microcalcifications of the breast | 44771000 | C0520594 |
| DCM | 111345 | Macrocalcifications | | |

CID 6012 Calcification Distribution Modifier

Note

In future extensions, Calcification Distribution Modifier terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20020904

Table CID 6012. Calcification Distribution Modifier

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 6013 "Calcification Distribution Modifier from BI-RADS®"</i> | | |

CID 6013 Calcification Distribution Modifier from BI-RADS®

Note

From BI-RADS®

Type: Extensible
Version: 20050822

Table CID 6013. Calcification Distribution Modifier from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | F-01770 | Diffuse calcification distribution | 129764001 | C1268689 |
| SRT | F-01771 | Linear calcification distribution | 129765000 | C1268690 |
| SRT | F-01772 | Grouped calcification distribution | 129766004 | C1268691 |
| SRT | F-01773 | Regional calcification distribution | 129767008 | C1268692 |
| SRT | F-01774 | Segmental calcification distribution | 129768003 | C1268693 |
| DCM | 111346 | Calcifications within a mass | | |
| DCM | 111347 | Calcifications outside of a mass | | |

CID 6014 Mammography Single Image Finding

Note

In future extensions, Mammography Single Image Finding terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20020904

Table CID 6014. Mammography Single Image Finding

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|-----------------|----------------------|------------------------|
| <i>Include CID 6015 "Single Image Finding from BI-RADS®"</i> | | | | |
| DCM | 111099 | Selected region | | |
| DCM | 111100 | Breast geometry | | |
| DCM | 111101 | Image Quality | | |
| DCM | 111102 | Non-lesion | | |
| SRT | T-04100 | Nipple | 24142002 | C0028109 |

CID 6015 Single Image Finding from BI-RADS®

Note

Collected from BI-RADS®

Type: Extensible
Version: 20150106

Table CID 6015. Single Image Finding from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | F-01796 | Mammography breast density | 129793001 | C1268717 |
| SRT | F-01776 | Individual Calcification | 129770007 | C1268695 |
| SRT | F-01775 | Calcification Cluster | 129769006 | C1268694 |
| SRT | F-01795 | Architectural distortion of breast | 129792006 | C1268716 |
| SRT | F-01797 | Tubular density | 129794007 | C1268718 |
| SRT | T-C4351 | Intra-mammary lymph node | 421997006 | C1706372 |
| SRT | F-01798 | Trabecular thickening of breast | 129795008 | C1268719 |
| SRT | F-01710 | Breast composition | 129715009 | C0005890 |
| SRT | F-01799 | Skin retraction of breast | 129796009 | C0238832 |
| SRT | F-0179A | Skin thickening of breast | 129797000 | C1268720 |
| SRT | DC-721C4 | Axillary adenopathy | 127189005 | C0578735 |
| SRT | D0-00050 | Skin lesion | 95324001 | C0037284 |
| DCM | 111111 | Cooper's ligament changes | | |
| SRT | M-36300 | Edema | 79654002 | C0013604 |
| DCM | 111112 | Mass in the skin | | |
| DCM | 111113 | Mass on the skin | | |
| SRT | T-C4710 | Axillary lymph node | 68171009 | C0729594 |

CID 6016 Mammography Composite Feature

Note

In future extensions, Mammography Composite Feature terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20050110

Table CID 6016. Mammography Composite Feature

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------------------|
| DCM | 111459 | Mass with calcifications |
| <i>Include CID 6014 "Mammography Single Image Finding"</i> | | |
| <i>Include CID 6017 "Composite Feature from BI-RADS®"</i> | | |

CID 6017 Composite Feature from BI-RADS®

Note

Collected from BI-RADS® Third Edition

Type: Extensible
Version: 20020904

Table CID 6017. Composite Feature from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | F-01791 | Mammographic breast mass | 129788004 | C1268712 |
| SRT | F-01792 | Focal asymmetric breast tissue | 129789007 | C1268713 |
| SRT | F-01793 | Asymmetric breast tissue | 129790003 | C1268714 |

CID 6018 Clockface Location or Region

Note

In future extensions, Clockface Location or Region terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20020904

Table CID 6018. Clockface Location or Region

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| <i>Include CID 6019 "Clockface Location or Region from BI-RADS®"</i> | | | | |
| SRT | T-D3050 | Chest wall | 78904004 | C0205076 |

CID 6019 Clockface Location or Region from BI-RADS®

Note

From BI-RADS® 3.1, with Addendum 3.1 (National Mammography Database, E96)

Type: Extensible
Version: 20020904

Table CID 6019. Clockface Location or Region from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | F-01781 | 1 o'clock position | 129772004 | C1268696 |
| SRT | F-01782 | 2 o'clock position | 129773009 | C1268697 |
| SRT | F-01783 | 3 o'clock position | 129774003 | C1268698 |
| SRT | F-01784 | 4 o'clock position | 129775002 | C1268699 |
| SRT | F-01785 | 5 o'clock position | 129776001 | C1268700 |
| SRT | F-01786 | 6 o'clock position | 129777005 | C1268701 |
| SRT | F-01787 | 7 o'clock position | 129778000 | C1268702 |
| SRT | F-01788 | 8 o'clock position | 129779008 | C1268703 |
| SRT | F-01789 | 9 o'clock position | 129780006 | C1268704 |
| SRT | F-0178A | 10 o'clock position | 129781005 | C1268705 |
| SRT | F-0178B | 11 o'clock position | 129782003 | C1268706 |
| SRT | F-0178C | 12 o'clock position | 129783008 | C1268707 |
| SRT | F-0178D | Subareolar region | 129784002 | C1268708 |
| SRT | F-0178E | Axillary tail region | 129785001 | C1268709 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | F-0178F | Central region of breast | 129786000 | C1268710 |
| SRT | F-01794 | Axilla region | 129791004 | C1268715 |

CID 6020 Quadrant Location

Note

In future extensions, Quadrant Location terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20020904

Table CID 6020. Quadrant Location

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 6021 "Quadrant Location from BI-RADS®"</i> | | |

CID 6021 Quadrant Location from BI-RADS®

Note

From BI-RADS® Third Edition (National Mammography Database, E97)

Type: Extensible
Version: 20020904

Table CID 6021. Quadrant Location from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | T-04004 | Upper outer quadrant of breast | 76365002 | C0222598 |
| SRT | T-04002 | Upper inner quadrant of breast | 77831004 | C0222596 |
| SRT | T-04005 | Lower outer quadrant of breast | 33564002 | C0222599 |
| SRT | T-04003 | Lower inner quadrant of breast | 19100000 | C0222597 |

CID 6022 Side

Note

In future extensions, Side terms that are not derived from BI-RADS® should be added to this context group.

Type: Non-Extensible
Version: 20020904

Table CID 6022. Side

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 6023 "Side from BI-RADS®"</i> | | |

CID 6023 Side from BI-RADS®

Note

From BI-RADS® Third Edition (National Mammography Database, E98)

Type: Non-Extensible
Version: 20020904

Table CID 6023. Side from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | T-04030 | Left breast | 80248007 | C0222601 |
| SRT | T-04020 | Right breast | 73056007 | C0222600 |
| SRT | T-04080 | Both breasts | 63762007 | C0222605 |

CID 6024 Depth

Note

In future extensions, Depth terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20020904

Table CID 6024. Depth

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 6025 "Depth from BI-RADS®"</i> | | |

CID 6025 Depth from BI-RADS®

Note

From BI-RADS® Third Edition (National Mammography Database, E99)

Type: Extensible
Version: 20160405

Table CID 6025. Depth from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-404CC | Anterior | 255549009 | C1704448 |
| SRT | R-4081A | Middle | 260528009 | C2939193 |
| SRT | R-404CE | Posterior | 255551008 | C0205095 |

CID 6026 Mammography Assessment

Note

In future extensions, Mammography Assessment terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20050822

Table CID 6026. Mammography Assessment

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--|
| <i>Include CID 6027 "Assessment from BI-RADS®"</i> | | |
| DCM | 111120 | Post Procedure Mammograms for Marker Placement |

CID 6027 Assessment from BI-RADS®

Note

From BI-RADS®

Type: Extensible
Version: 20050822

Table CID 6027. Assessment from BI-RADS®

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|-----------------------|--------------|--|----------------------|------------------------|
| SRT | | F-037BB | 0 - Incomplete - Need additional imaging evaluation +/- priors | 397138000 | C1301244 |
| SRT | | F-037BC | 1 - Negative | 397140005 | C1301245 |
| SRT | | F-037BD | 2 - Benign | 397141009 | C1301246 |
| SRT | | F-037BF | 3 - Probably Benign | 397143007 | C1301247 |
| SRT | | F-037C0 | 4 - Suspicious | 397144001 | C1301248 |
| BI | 4.0 | MA.II.A.5.4A | 4A - Low suspicion | | |
| BI | 4.0 | MA.II.A.5.4B | 4B - Intermediate suspicion | | |
| BI | 4.0 | MA.II.A.5.4C | 4C - Moderate suspicion | | |
| SRT | | F-037C1 | 5 - Highly suggestive of malignancy | 397145000 | C1301249 |
| BI | 4.0 | MA.II.A.5.6 | 6 - Known biopsy proven malignancy | | |

Note

1. The code meanings are those from BI-RADS Atlas 5th edition, which removed the management recommendation from the assessment category.
2. The code meaning for category 0 is shortened to fit the 64 character limitation of the Value Representation. In BI-RADS 5th edition, the full meaning is "Incomplete - Need additional imaging evaluation and/or prior mammograms for comparison".

CID 6028 Mammography Recommended Follow-up

Note

In future extensions, Mammography Recommended Follow-up terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20020904

Table CID 6028. Mammography Recommended Follow-up

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--|----------------------|------------------------|
| <i>Include CID 6029 "Recommended Follow-up from BI-RADS®"</i> | | | | |
| DCM | 111121 | Follow-up post biopsy as directed by clinician | | |
| SRT | P0-006F1 | Nuclear medicine procedure | 371572003 | C0203634 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | P0-009B4 | Evaluation procedure | 386053000 | C1261322 |
| DCM | 111410 | Surgical consult | | |

CID 6029 Recommended Follow-up from BI-RADS®

Note

From BI-RADS®

Type: Extensible
Version: 20160314

Table CID 6029. Recommended Follow-up from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| DCM | 111135 | Additional projections | | |
| SRT | R-102D6 | Magnification views | 399163009 | C1302233 |
| SRT | R-102D7 | Spot compression | 399055006 | C1302185 |
| DCM | 111136 | Spot magnification view(s) | | |
| SRT | P5-B0000 | Diagnostic ultrasonography | 16310003 | C0041618 |
| DCM | 111138 | Old films for comparison | | |
| SRT | P5-40060 | Mammary ductogram | 18102001 | C0203033 |
| DCM | 111140 | Normal interval follow-up | | |
| DCM | 111141 | Any decision to biopsy should be based on clinical assessment | | |
| DCM | 111142 | Follow-up at short interval (1-11 months) | | |
| DCM | 111143 | Biopsy should be considered | | |
| DCM | 111144 | Needle localization and biopsy | | |
| DCM | 111145 | Histology using core biopsy | | |
| DCM | 111146 | Suggestive of malignancy - take appropriate action | | |
| DCM | 111147 | Cytologic analysis | | |
| DCM | 111148 | Biopsy should be strongly considered | | |
| DCM | 111149 | Highly suggestive of malignancy - take appropriate action | | |
| DCM | 111122 | Known biopsy proven malignancy - take appropriate action | | |
| SRT | P5-0900D | MRI of breast | 241615005 | C0344104 |

CID 6030 Mammography Pathology Codes

Note

In future extensions, Mammography Pathology Codes terms that are not derived from BI-RADS® should be added to this context group.

Type: Extensible
Version: 20020904

Table CID 6030. Mammography Pathology Codes

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 6031 "Benign Pathology Codes from BI-RADS®"</i> | | |
| <i>Include CID 6032 "High Risk Lesions Pathology Codes from BI-RADS®"</i> | | |
| <i>Include CID 6033 "Malignant Pathology Codes from BI-RADS®"</i> | | |

CID 6031 Benign Pathology Codes from BI-RADS®

Note

From BI-RADS® Third Edition, with Addendum 3.1 (National Mammography Database,F110)

Type: Extensible
Version: 20160314

Table CID 6031. Benign Pathology Codes from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| SRT | M-41610 | Abscess | 44132006 | C0000833 |
| SRT | M-74200 | Adenosis | 57597008 | C0334050 |
| SRT | M-81400 | Adenoma | 32048006 | C0001430 |
| SRT | M-83240 | Adenolipoma | 22024005 | C0334325 |
| SRT | M-73310 | Apocrine Metaplasia | 81274009 | C0269252 |
| SRT | M-89830 | Adenomyoepithelioma | 128765009 | C1266146 |
| SRT | M-55160 | Amyloid (tumor) | 37279009 | C0333572 |
| DCM | 111251 | Normal axillary node | | |
| SRT | M-88610 | Angiolipoma | 73219006 | C0206632 |
| DCM | 111252 | Axillary node with calcifications | | |
| SRT | M-76100 | Angiomatosis | 14350002 | C0002992 |
| DCM | 111253 | Axillary node hyperplasia | | |
| SRT | F-8A063 | Asynchronous involution of breast | 130963002 | C1295577 |
| SRT | D7-90035 | Cyst of breast | 399294002 | C0006144 |
| DCM | 111255 | Benign cyst with blood | | |
| DCM | 111256 | Benign Calcifications | | |
| SRT | M-92200 | Chondroma | 31186001 | C0936248 |
| SRT | M-85040 | Intracystic papilloma | 47488001 | C0334374 |
| DCM | 111258 | Ductal adenoma | | |
| SRT | D7-90370 | Mammary duct ectasia | 22049009 | C0152442 |
| DCM | 111259 | Diabetic fibrous mastopathy | | |
| SRT | M-72170 | Ductal hyperplasia, Usual | 67617000 | C0333994 |
| SRT | M-88211 | Extra abdominal desmoid | 47284001 | C0079218 |
| SRT | D4-48014 | Ectopic (accessory) breast tissue | 1896004 | C0266012 |
| SRT | M-33415 | Epidermal inclusion cyst | 419670003 | C0014511 |
| SRT | M-36300 | Edema | 79654002 | C0013604 |
| SRT | M-90100 | Fibroadenoma | 65877006 | C0206650 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| DCM | 111263 | Fibroadenomatoid hyperplasia | | |
| DCM | 111264 | Fibroadenolipoma | | |
| SRT | M-44140 | Foreign body (reaction) | 37058002 | C0016549 |
| SRT | D7-90310 | Fibrocystic disease of breast | 27431007 | C0016034 |
| SRT | M-78266 | Focal fibrosis | 45559001 | C0521195 |
| SRT | M-78800 | Fibromatosis | 19928005 | C0016048 |
| SRT | D7-90434 | Fat necrosis of breast | 21381006 | C0156321 |
| SRT | D7-90364 | Galactocele | 42385006 | C0152243 |
| SRT | M-95800 | Granular cell tumor | 12169001 | C0085167 |
| SRT | M-90160 | Giant fibroadenoma | 34882000 | C0334500 |
| SRT | D7-90420 | Gynecomastia | 4754008 | C0018418 |
| SRT | M-75500 | Hamartoma | 51398009 | C0018552 |
| SRT | M-91200 | Hemangioma | 2099007 | C0018916 |
| SRT | D3-F0620 | Hemangioma of subcutaneous tissue | 93473009 | C0685200 |
| SRT | M-91220 | Hemangioma - venous | 56468002 | C0334532 |
| SRT | M-35060 | Hematoma | 35566002 | C0018944 |
| SRT | M-72000 | Hyperplasia, usual | 76197007 | C0020507 |
| SRT | D7-90452 | Infarction of breast | 77296004 | C0269266 |
| SRT | M-40000 | Inflammation | 23583003 | C0021368 |
| SRT | T-C4351 | Intra-mammary lymph node | 421997006 | C1706372 |
| SRT | M-85030 | Intraductal papilloma | 5244003 | C0206713 |
| SRT | M-90300 | Juvenile fibroadenoma | 46212000 | C0346158 |
| DCM | 111277 | Juvenile papillomatosis | | |
| SRT | M-82040 | Lactating adenoma | 128651002 | C1266023 |
| SRT | M-88500 | Lipoma | 46720004 | C0023798 |
| DCM | 111279 | Lactational change | | |
| SRT | D7-90428 | Breast lobular hyperplasia | 6703006 | C0269263 |
| SRT | M-88900 | Leiomyoma | 44598004 | C0042133 |
| SRT | T-C4000 | Lymph node | 59441001 | C0024204 |
| DCM | 111281 | Large duct papilloma | | |
| SRT | D3-87780 | Thrombophlebitis of breast (Mondor's disease) | 69954004 | C0265070 |
| SRT | M-88250 | Myofibroblastoma | 128738002 | C0242404 |
| DCM | 111284 | Microglandular adenosis | | |
| DCM | 111285 | Multiple Intraductal Papillomas | | |
| DCM | 111286 | No abnormality | | |
| DCM | 111287 | Normal breast tissue | | |
| SRT | M-95400 | Neurofibroma | 89084002 | C0027830 |
| SRT | M-95401 | Neurofibromatosis | 81669005 | C0162678 |
| SRT | D7-F0810 | Benign neoplasm of nipple of female breast (Nipple adenoma) | 92248004 | C0686290 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| DCM | 111290 | Oil cyst (fat necrosis cyst) | | |
| SRT | M-80500 | Papilloma | 23730008 | C0030354 |
| SRT | M-89400 | Pleomorphic adenoma | 8360001 | C0026277 |
| DCM | 111291 | Post reduction mammoplasty | | |
| DCM | 111292 | Pseudoangiomatous stromal hyperplasia | | |
| SRT | M-78731 | Radial scar | 133855003 | C1297883 |
| SRT | M-74220 | Sclerosing adenosis | 50916005 | C0235590 |
| SRT | M-36050 | Seroma | 56021002 | C0262627 |
| DCM | 111296 | Silicone granuloma | | |
| SRT | M-78060 | Scar tissue | 12402003 | C2004491 |
| SRT | M-82110 | Tubular adenoma | 19665009 | C0334292 |
| DCM | 111298 | Virginal hyperplasia | | |

CID 6032 High Risk Lesions Pathology Codes from BI-RADS®

Note

From BI-RADS® Third Edition, with Addendum 3.1 (National Mammography Database,F110)

Type: Extensible
Version: 20020904

Table CID 6032. High Risk Lesions Pathology Codes from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|
| SRT | M-72175 | Atypical intraductal hyperplasia | 6660000 | C0521187 |
| SRT | M-72105 | Atypical lobular hyperplasia | 33889003 | C0442835 |
| SRT | D7-F0A02 | Lobular carcinoma in situ of breast | 109888004 | C0279563 |
| DCM | 111299 | Peripheral duct papillomas | | |
| SRT | M-90201 | Phyllodes tumor | 71232009 | C0010701 |

CID 6033 Malignant Pathology Codes from BI-RADS®

Note

From BI-RADS® Third Edition, with Addendum 3.1 (National Mammography Database,F110)

Type: Extensible
Version: 20020904

Table CID 6033. Malignant Pathology Codes from BI-RADS®

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | M-82003 | Adenoid cystic carcinoma | 11671000 | C0010606 |
| DCM | 111300 | Axillary node with lymphoma | | |
| DCM | 111301 | Axillary nodal metastases | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | M-84013 | Apocrine adenocarcinoma | 57141000 | C0334346 |
| SRT | M-91203 | Angiosarcoma | 39000009 | C0018923 |
| DCM | 111307 | Basal cell carcinoma of nipple | | |
| DCM | 111303 | Blood vessel (vascular) invasion | | |
| SRT | M-84803 | Mucinous adenocarcinoma (Colloid carcinoma) | 72495009 | C0007130 |
| DCM | 111304 | Carcinoma in children | | |
| SRT | M-92203 | Chondrosarcoma | 14990007 | C0008479 |
| DCM | 111305 | Carcinoma in ectopic breast | | |
| DCM | 111306 | Carcinoma with endocrine differentiation | | |
| SRT | M-85012 | Comedocarcinoma (intraductal) | 78197004 | C0334369 |
| SRT | D7-F0902 | Carcinoma in situ of male breast | 92652009 | C0686328 |
| SRT | M-85733 | Carcinoma with metaplasia | 22694002 | C0334396 |
| DCM | 111309 | Cartilaginous and osseous change | | |
| DCM | 111310 | Carcinoma in pregnancy and lactation | | |
| SRT | M-89803 | Carcinosarcoma | 63264007 | C0007140 |
| DCM | 111312 | Intraductal comedocarcinoma with necrosis | | |
| DCM | 111341 | Intraductal carcinoma, high grade | | |
| DCM | 111313 | Intraductal carcinoma, low grade | | |
| SRT | M-85072 | Intraductal carcinoma micro-papillary | 128696009 | C1266080 |
| SRT | M-88103 | Fibrosarcoma | 53654007 | C0016057 |
| SRT | M-83153 | Glycogen-rich carcinoma | 74280008 | C0334319 |
| SRT | M-91501 | Hemangiopericytoma | 36060005 | C0018922 |
| SRT | M-96503 | Hodgkin's disease (lymphoma) | 14537002 | C0019829 |
| SRT | M-82013 | Invasive cribriform carcinoma | 30156004 | C0205643 |
| DCM | 111315 | Intracystic papillary carcinoma | | |
| SRT | M-85003 | Infiltrating duct carcinoma | 82711006 | C1412014 |
| DCM | 111316 | Invasive and in-situ carcinoma | | |
| SRT | M-85203 | Invasive lobular carcinoma | 89740008 | C0206692 |
| SRT | M-85303 | Inflammatory carcinoma | 32968003 | C0334385 |
| SRT | M-80503 | Papillary carcinoma (invasive) | 25910003 | C0007133 |
| DCM | 111318 | Leukemic infiltration | | |
| SRT | M-88903 | Leiomyosarcoma | 51549004 | C0023269 |
| SRT | M-88503 | Liposarcoma | 49430005 | C0023827 |
| SRT | M-83143 | Lipid-rich (lipid-secreting) carcinoma | 3839000 | C0334318 |
| DCM | 111320 | Lymphatic vessel invasion | | |
| SRT | M-95903 | Lymphoma | 21964009 | C0024299 |
| DCM | 111322 | Occult carcinoma presenting with axillary lymph node metastases | | |
| DCM | 111323 | Metastatic cancer to the breast | | |
| DCM | 111324 | Metastatic cancer to the breast from the colon | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| DCM | 111325 | Metastatic cancer to the breast from the lung | | |
| DCM | 111326 | Metastatic melanoma to the breast | | |
| DCM | 111327 | Metastatic cancer to the breast from the ovary | | |
| DCM | 111328 | Metastatic sarcoma to the breast | | |
| SRT | M-85103 | Medullary carcinoma | 32913002 | C0206693 |
| DCM | 111329 | Multifocal intraductal carcinoma | | |
| DCM | 111330 | Metastatic disease to axillary node | | |
| SRT | M-88303 | Malignant fibrous histiocytoma | 34360000 | C0334463 |
| DCM | 111332 | Multifocal invasive ductal carcinoma | | |
| DCM | 111333 | Metastasis to an intramammary lymph node | | |
| DCM | 111334 | Malignant melanoma of nipple | | |
| SRT | M-95913 | Non-Hodgkin's lymphoma | 1929004 | C0024305 |
| SRT | D0-F035F | Neoplasm of the mammary skin | 126510002 | C1290094 |
| SRT | M-91803 | Osteogenic sarcoma | 21708004 | C0029463 |
| SRT | M-80502 | Papillary carcinoma in-situ | 10376009 | C0334242 |
| SRT | M-85403 | Paget's disease, mammary (of the nipple) | 2985005 | C0030185 |
| SRT | M-97313 | Plasmacytoma | 10639003 | C0032131 |
| SRT | M-90203 | Phyllodes tumor, malignant | 87913009 | C0600066 |
| DCM | 111338 | Recurrent malignancy | | |
| SRT | M-84903 | Signet ring cell carcinoma | 87737001 | C0206696 |
| DCM | 111340 | Squamous cell carcinoma of the nipple | | |
| SRT | M-78190 | Spindle cell nodule (tumor) | 110451006 | C0333821 |
| SRT | M-85023 | Secretory (juvenile) carcinoma of the breast | 41919003 | C0334371 |
| SRT | M-80703 | Squamous cell carcinoma | 28899001 | C0007137 |
| SRT | M-82113 | Tubular adenocarcinoma | 4631006 | C0205645 |

CID 6034 Intended Use of CAD Output

Type: Non-Extensible
Version: 20020904

Table CID 6034. Intended Use of CAD Output

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 111150 | Presentation Required: Rendering device is expected to present |
| DCM | 111151 | Presentation Optional: Rendering device may present |
| DCM | 111152 | Not for Presentation: Rendering device expected not to present |

CID 6035 Composite Feature Relations

Type: Non-Extensible
Version: 20020904

Table CID 6035. Composite Feature Relations

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 111153 | Target content items are related temporally |
| DCM | 111154 | Target content items are related spatially |
| DCM | 111155 | Target content items are related contra-laterally |

CID 6036 Scope of Feature

Type: Non-Extensible
Version: 20020904

Table CID 6036. Scope of Feature

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 111156 | Feature detected on the only image |
| DCM | 111157 | Feature detected on only one of the images |
| DCM | 111158 | Feature detected on multiple images |
| DCM | 111159 | Feature detected on images from multiple modalities |

CID 6037 Mammography Quantitative Temporal Difference Type

Type: Extensible
Version: 20020904

Table CID 6037. Mammography Quantitative Temporal Difference Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | F-017B1 | Difference in size | 129806009 | C1268722 |
| SRT | F-017B2 | Difference in opacity | 129807000 | C1268723 |
| SRT | F-017B3 | Difference in location | 129808005 | C1268724 |
| SRT | F-017B4 | Difference in spatial proximity | 129809002 | C1268725 |
| SRT | F-017B5 | Difference in number of calcifications | 129810007 | C1268726 |

CID 6038 Mammography Qualitative Temporal Difference Type

Type: Extensible
Version: 20020904

Table CID 6038. Mammography Qualitative Temporal Difference Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | F-017B6 | Difference in shape | 129811006 | C1268727 |
| SRT | F-017B7 | Difference in margin | 129812004 | C1268728 |
| SRT | F-017B8 | Difference in symmetry | 129813009 | C1268729 |

CID 6039 Nipple Characteristic

Type: Extensible
Version: 20020904

Table CID 6039. Nipple Characteristic

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | M-02000 | Normal shape | 31842008 | C0332480 |
| SRT | D7-90554 | Nipple retraction | 31845005 | C0221370 |

CID 6040 Non-lesion Object Type

Type: Extensible
Version: 20160314

Table CID 6040. Non-lesion Object Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | A-32475 | BB shot (Lead Pellet) | 102378009 | C0522706 |
| SRT | A-32110 | Bullet | 86122002 | C0336699 |
| SRT | A-11101 | Cardiac Pacemaker | 118378005 | C1289799 |
| SRT | A-26800 | Catheter | 19923001 | C0085590 |
| SRT | A-12062 | Clip | 77720000 | C0175722 |
| SRT | A-0110F | Collimator | 228761004 | C0454169 |
| SRT | A-10042 | Compression paddle | 129460009 | C1268544 |
| SRT | C-B0300 | Contrast agent | 7140000 | C0009924 |
| SRT | A-16016 | ID Plate | 129467007 | C1268548 |
| SRT | A-04010 | Implant | 40388003 | C0021102 |
| SRT | A-1016B | J Wire | 129463006 | C1268545 |
| SRT | A-00D7B | Opaque Marker | 262301009 | C0445402 |
| DCM | 111175 | Other Marker | | |
| SRT | M-78060 | Scar tissue | 12402003 | C2004491 |
| SRT | A-13600 | Staple | 56353002 | C0524724 |
| SRT | A-13500 | Suture | 27065002 | C0038969 |
| DCM | 111176 | Unspecified | | |

Note

1. This Context Group formerly included SNOMED code J-83250, which has been replaced with A-00D7B. See Annex J.
2. The use of (111176, DCM, "Unspecified") is explicitly permitted in this context group to allow for the communication of measurements of an object of unknown type using TID 4012 "Mammography CAD Non-lesion".

CID 6041 Mammography Image Quality Finding

Type: Extensible
Version: 20020904

Table CID 6041. Mammography Image Quality Finding

| Coding Scheme Designator | Code Value | Code Meaning | Source |
|--------------------------|------------|---------------------------------------|--------|
| DCM | 111177 | View and Laterality Marker is missing | MQSA |

| Coding Scheme Designator | Code Value | Code Meaning | Source |
|--------------------------|------------|---|-----------|
| DCM | 111178 | View and Laterality Marker does not have both view and laterality | MQCM 1999 |
| DCM | 111179 | View and Laterality Marker does not have approved codes | MQCM 1999 |
| DCM | 111180 | View and Laterality Marker is not near the axilla | MQCM 1999 |
| DCM | 111181 | View and Laterality Marker overlaps breast tissue | MQCM 1999 |
| DCM | 111182 | View and Laterality Marker is partially obscured | MQCM 1999 |
| DCM | 111183 | View and Laterality Marker is incorrect | |
| DCM | 111184 | View and Laterality Marker is off image | |
| DCM | 111185 | Flash is not near edge of film | MQCM 1999 |
| DCM | 111186 | Flash is illegible, does not fit, or is lopsided | MQSA |
| DCM | 111187 | Flash doesn't include patient name and additional patient id | MQCM 1999 |
| DCM | 111188 | Flash doesn't include date of examination | MQCM 1999 |
| DCM | 111189 | Flash doesn't include facility name and location | MQSA |
| DCM | 111190 | Flash doesn't include technologist identification | MQCM 1999 |
| DCM | 111191 | Flash doesn't include cassette/screen/detector identification | MQCM 1999 |
| DCM | 111192 | Flash doesn't include mammography unit identification | MQCM 1999 |
| DCM | 111193 | Date sticker is missing | MQCM 1999 |
| DCM | 111194 | Technical factors missing | MQCM 1999 |
| DCM | 111195 | Collimation too close to breast | MQCM 1999 |
| DCM | 111196 | Inadequate compression | MQCM 1999 |
| DCM | 111197 | MLO Insufficient pectoral muscle | MQCM 1999 |
| DCM | 111198 | MLO No fat is visualized posterior to fibroglandular tissues | MQCM 1999 |
| DCM | 111199 | MLO Poor separation of deep and superficial breast tissues | MQCM 1999 |
| DCM | 111200 | MLO Evidence of motion blur | MQCM 1999 |
| DCM | 111201 | MLO Inframammary fold is not open | MQCM 1999 |
| DCM | 111202 | CC Not all medial tissue visualized | MQCM 1999 |
| DCM | 111203 | CC Nipple not centered on image | MQCM 1999 |
| DCM | 111204 | CC Posterior nipple line does not measure within 1 cm of MLO | MQCM 1999 |
| DCM | 111205 | Nipple not in profile | |
| DCM | 111206 | Insufficient implant displacement incorrect | MQCM 1999 |
| DCM | 111208 | Grid artifact(s) | |
| DCM | 111209 | Positioning | |
| DCM | 111210 | Motion blur | |
| DCM | 111211 | Under exposed | |
| DCM | 111212 | Over exposed | |
| DCM | 111213 | No image | |
| DCM | 111214 | Detector artifact(s) | |

| Coding Scheme Designator | Code Value | Code Meaning | Source |
|--------------------------|------------|--|--------|
| DCM | 111215 | Artifact(s) other than grid or detector artifact | |
| DCM | 111216 | Mechanical failure | |
| DCM | 111217 | Electrical failure | |
| DCM | 111218 | Software failure | |
| DCM | 111219 | Inappropriate image processing | |
| DCM | 111220 | Other failure | |
| DCM | 111221 | Unknown failure | |

CID 6042 Status of Results

Type: Non-Extensible
Version: 20020904

Table CID 6042. Status of Results

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------|
| DCM | 111222 | Succeeded |
| DCM | 111223 | Partially Succeeded |
| DCM | 111224 | Failed |
| DCM | 111225 | Not Attempted |

CID 6043 Types of Mammography CAD Analysis

Type: Extensible
Version: 20020904

Table CID 6043. Types of Mammography CAD Analysis

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Notes |
|--------------------------|------------|---|----------------------|------------------------|------------|
| SRT | P5-B3402 | Spatial collocation analysis | 133884007 | C1297892 | See Note 1 |
| SRT | P5-B3404 | Spatial proximity analysis | 133885008 | C1297893 | See Note 2 |
| SRT | P5-B3406 | Temporal correlation | 133886009 | C1297894 | |
| SRT | P5-B3408 | Image quality analysis | 133887000 | C1297895 | |
| SRT | P5-B3410 | Focal asymmetric density analysis | 133888005 | C1297896 | |
| SRT | P5-B3412 | Asymmetric breast tissue analysis | 133889002 | C1297897 | |
| SRT | P5-B3414 | Breast composition analysis | 133890006 | C1297898 | |
| DCM | 111233 | Individual Impression / Recommendation Analysis | | | |
| DCM | 111234 | Overall Impression / Recommendation Analysis | | | |

Note

1. Spatial Collocation Analysis is used to identify features that are the same or located in the same place.
2. Spatial Proximity Analysis is used to identify features that are related spatially, such as nipple retraction associated with a spiculated mass.

CID 6044 Types of Image Quality Assessment

Type: Extensible
Version: 20020904

Table CID 6044. Types of Image Quality Assessment

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 111235 | Unusable - Quality renders image unusable |
| DCM | 111236 | Usable - Does not meet the quality control standard |
| DCM | 111237 | Usable - Meets the quality control standard |

CID 6045 Mammography Types of Quality Control Standard

Type: Extensible
Version: 20020904

Table CID 6045. Mammography Types of Quality Control Standard

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 111238 | Mammography Quality Control Manual 1999, ACR |
| DCM | 111239 | Title 21 CFR Section 900, Subpart B |
| DCM | 111240 | Institutionally defined quality control standard |

CID 6046 Units of Follow-up Interval

Type: Extensible
Version: 20020904

Table CID 6046. Units of Follow-up Interval

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| UCUM | d | day |
| UCUM | wk | week |
| UCUM | mo | month |
| UCUM | a | year |

CID 6047 CAD Processing and Findings Summary

Type: Non-Extensible
Version: 20020904

Table CID 6047. CAD Processing and Findings Summary

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 111241 | All algorithms succeeded; without findings |
| DCM | 111242 | All algorithms succeeded; with findings |
| DCM | 111243 | Not all algorithms succeeded; without findings |
| DCM | 111244 | Not all algorithms succeeded; with findings |
| DCM | 111245 | No algorithms succeeded; without findings |

CID 6048 CAD Operating Point Axis Label

Type: Extensible

Version: 20060612

Table CID 6048. CAD Operating Point Axis Label

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------|
| DCM | 111012 | Certainty of Finding |
| DCM | 111047 | Probability of cancer |
| DCM | 111086 | False Markers per Image |
| DCM | 111087 | False Markers per Case |
| DCM | 111088 | Case Sensitivity |
| DCM | 111089 | Lesion Sensitivity |
| DCM | 111090 | Case Specificity |
| DCM | 111091 | Image Specificity |

CID 6050 Breast Procedure ReportedType: Extensible
Version: 20090819**Table CID 6050. Breast Procedure Reported**

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| DCM | 111408 | Film Screen Mammography | | |
| DCM | 111409 | Digital Mammography | | |
| SRT | P5-B8500 | Ultrasonography of breast | 47079000 | C0080264 |
| SRT | P5-0900D | MRI of breast | 241615005 | C0344104 |
| SRT | P1-48011 | Pre-biopsy localization of breast lesion | 237380007 | C0473515 |
| SRT | P1-48145 | Fine needle aspiration of breast | 387736007 | C0542415 |
| SRT | P1-48142 | Diagnostic aspiration of breast cyst | 287572003 | C0565162 |
| SRT | P1-48304 | Core needle biopsy of breast | 44578009 | C0191853 |
| SRT | P1-4830F | Breast - surgical biopsy | 274331003 | C0585992 |
| SRT | P5-40060 | Mammary ductogram | 18102001 | C0203033 |
| SRT | P5-0801C | CT of breast | 241539009 | C0412609 |
| SRT | P5-D0042 | Radionuclide localization of tumor, limited area | 66377006 | C0203652 |
| SRT | P5-40030 | Specimen radiography of breast | 80865008 | C0203031 |
| SRT | P2-4A000 | Examination of breast | 46662001 | C0199850 |
| DCM | 111410 | Surgical consult | | |
| DCM | 111411 | Mammography CAD | | |
| SRT | P1-65359 | Sentinel lymph node biopsy | 396487001 | C0796693 |
| SRT | P5-D0061 | Radioisotope scan of lymphatic system | 169167001 | C0412375 |
| DCM | 111123 | Marker placement | | |
| SRT | P1-05535 | Insertion of catheter | 45211000 | C0007430 |

CID 6051 Breast Procedure Reason

Note

Some of these terms were obtained from BI-RADS®

Type: Extensible
Version: 20160314

Table CID 6051. Breast Procedure Reason

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--|----------------------|------------------------|
| <i>Include CID 6061 "Breast Imaging Procedure Modifiers"</i> | | | | |
| DCM | 111415 | Additional evaluation requested from prior study | | |
| DCM | 111416 | Follow-up at short interval from prior study | | |
| DCM | 111417 | History of breast augmentation, asymptomatic | | |
| DCM | 111418 | Review of an outside study | | |
| DCM | 111402 | Clinical finding | | |
| SRT | P1-48830 | Reduction mammoplasty | 59214008 | C0191922 |
| SRT | P5-C0000 | Radiation therapy | 53438000 | C1522449 |
| SRT | P1-48840 | Augmentation mammoplasty | 22890008 | C0191925 |
| DCM | 111419 | Additional evaluation requested from abnormal screening exam | | |
| SRT | P5-C018A | Brachytherapy | 384692006 | C0006098 |
| DCM | 111420 | History of benign breast biopsy | | |
| DCM | 111421 | Personal history of breast cancer with breast conservation therapy | | |
| DCM | 111124 | Personal history of breast cancer with mastectomy | | |
| DCM | 111125 | Known biopsy proven malignancy | | |
| SRT | G-03D3 | Personal history of breast cancer | 415076002 | C1387407 |
| DCM | 111590 | Recall for technical reasons | | |
| DCM | 111591 | Recall for imaging findings | | |
| DCM | 111592 | Recall for patient symptoms/ clinical findings | | |

CID 6052 Breast Imaging Report Section Title

Type: Extensible
Version: 20040112

Table CID 6052. Breast Imaging Report Section Title

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| DCM | 111423 | Physical Examination Results | | |
| DCM | 111424 | Comparison to previous exams | | |
| DCM | 121070 | Findings | | |
| LN | 19005-8 | Impressions | | C0801998 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| DCM | 121074 | Recommendations | | |
| DCM | 121076 | Conclusions | | |
| DCM | 121078 | Addendum | | |
| SRT | F-01710 | Breast composition | 129715009 | C0005890 |
| DCM | 111413 | Overall Assessment | | |
| DCM | 121058 | Procedure reported | | |
| DCM | 111401 | Reason for procedure | | |

CID 6053 Breast Imaging Report Elements

Type: Extensible
Version: 20040112

Table CID 6053. Breast Imaging Report Elements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| DCM | 111423 | Physical Examination Results | | |
| DCM | 111424 | Comparison to previous exams | | |
| DCM | 121071 | Finding | | |
| DCM | 121073 | Impression | | |
| DCM | 121075 | Recommendation | | |
| DCM | 121077 | Conclusion | | |
| SRT | F-01710 | Breast composition | 129715009 | C0005890 |
| DCM | 111413 | Overall Assessment | | |
| DCM | 121058 | Procedure reported | | |
| DCM | 111401 | Reason for procedure | | |

CID 6054 Breast Imaging Findings

Type: Extensible
Version: 20050110

Table CID 6054. Breast Imaging Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|-------------------------|----------------------|------------------------|
| SRT | F-8A084 | Breast normal | 290084006 | C0567498 |
| SRT | F-8A057 | Calcification of breast | 309587003 | C0587094 |
| SRT | A-04010 | Implant | 40388003 | C0021102 |
| Include CID 6016 "Mammography Composite Feature" | | | | |
| Include CID 6057 "Ductography Findings for Breast" | | | | |
| Include CID 6064 "Ultrasound Findings for Breast" | | | | |

CID 6055 Breast Clinical Finding or Indicated Problem

Note

Some of these terms were obtained from BI-RADS®

Type: Extensible
Version: 20160314

Table CID 6055. Breast Clinical Finding or Indicated Problem

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-207D7 | O/E - Breast lump palpated | 268951004 | C0437107 |
| SRT | D7-90565 | Bloody nipple discharge | 290113009 | C0541951 |
| DCM | 111478 | Non-bloody discharge (from nipple) | | |
| DCM | 111479 | Difficult physical/clinical examination | | |
| SRT | D7-90010 | Disorder of breast implant | 271989003 | C0405486 |
| SRT | F-0179A | Skin thickening of breast | 129797000 | C1268720 |
| SRT | F-01799 | Skin retraction of breast | 129796009 | C0238832 |
| SRT | D7-90560 | Peau d'orange surface of breast | 87386002 | C0425791 |
| SRT | F-8A09C | Nipple problem | 290119008 | C0567530 |
| SRT | R-20099 | O/E - axillary lymphadenopathy | 164150006 | C0437624 |
| SRT | F-8A030 | Breast pain | 53430007 | C0024902 |
| DCM | 111480 | Cancer elsewhere | | |
| SRT | D7-90530 | Breast lump | 89164003 | C0024103 |
| SRT | F-8A074 | Discoloration of skin of breast | 290069002 | C0567486 |
| SRT | F-01760 | Radiographic calcification finding | 129748009 | C0015663 |
| DCM | 111126 | Image detected mass | | |
| SRT | F-03753 | Nipple discharge symptom | 162164007 | C0149741 |
| SRT | F-4410C | Erythema | 247441003 | C0041834 |
| SRT | R-202A9 | O/E - lymphadenopathy | 274303007 | C0558515 |
| SRT | DF-00577 | Disseminated malignancy of unknown primary | 285645000 | C0563521 |

CID 6056 Associated Findings for Breast

Note

These terms were obtained from BI-RADS®

Type: Extensible
Version: 20040112

Table CID 6056. Associated Findings for Breast

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | D7-9002A | Breast hematoma | 302924003 | C0342095 |
| SRT | M-78280 | Surgical scar | 63130001 | C0334150 |
| SRT | D7-90554 | Nipple retraction | 31845005 | C0221370 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| <i>Include CID 6015 "Single Image Finding from BI-RADS®"</i> | | | | |

CID 6057 Ductography Findings for Breast

Note

These terms were obtained from BI-RADS®

Type: Extensible
Version: 20040112

Table CID 6057. Ductography Findings for Breast

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| DCM | 111287 | Normal breast tissue | | |
| DCM | 111425 | Intraluminal filling defect | | |
| SRT | D7-90370 | Mammary duct ectasia | 22049009 | C0152442 |
| DCM | 111426 | Multiple filling defect | | |
| DCM | 111427 | Abrupt duct termination | | |
| DCM | 111428 | Extravasation | | |
| DCM | 111429 | Duct narrowing | | |
| DCM | 111430 | Cyst fill | | |

CID 6058 Procedure Modifiers for Breast

Type: Extensible
Version: 20050822

Table CID 6058. Procedure Modifiers for Breast

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 6059 "Breast Implant Types"</i> | | |
| <i>Include CID 6060 "Breast Biopsy Techniques"</i> | | |
| <i>Include CID 6061 "Breast Imaging Procedure Modifiers"</i> | | |
| <i>Include CID 12224 "Ultrasound Image Modes"</i> | | |

CID 6059 Breast Implant Types

Note

Some of these terms were obtained from BI-RADS®

Type: Extensible
Version: 20040112

Table CID 6059. Breast Implant Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | A-04830 | Breast implant, type not specified | 2282003 | C0179412 |
| SRT | A-04831 | Silicone gel implant | 257357007 | C0441274 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| DCM | 111481 | Saline implant | | |
| DCM | 111482 | Polyurethane implant | | |
| DCM | 111483 | Percutaneous silicone injection | | |
| DCM | 111484 | Combination implant | | |
| DCM | 111485 | Pre-pectoral implant | | |
| DCM | 111486 | Retro-pectoral implant | | |

CID 6060 Breast Biopsy Techniques

Note

Some of these terms were obtained from BI-RADS®

Type: Extensible
Version: 20160314

Table CID 6060. Breast Biopsy Techniques

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | P1-030C4 | Lumpectomy | 392021009 | C0851238 |
| UMLS | C0024881 | Mastectomy | | C0024881 |
| SRT | P1-4834A | Quadrantectomy of breast | 172049005 | C0337354 |
| SRT | P5-00032 | Diagnostic radiography, stereotactic localization | 64318009 | C0202577 |
| SRT | P5-B0700 | Ultrasonic guidance procedure | 61593002 | C0442973 |
| SRT | P5-40010 | Mammography | 71651007 | C0024671 |
| DCM | 111487 | Mammographic (crosshair) | | |
| DCM | 111488 | Mammographic (grid) | | |
| SRT | P1-03107 | Magnetic resonance imaging guided biopsy | 277592004 | C0456854 |
| SRT | P1-03106 | Computed tomography guided biopsy | 277591006 | C0456853 |
| DCM | 111489 | Palpation guided | | |
| DCM | 111490 | Vacuum assisted | | |

Note

1. In a prior version of this Context Group, the code P1-03115 was specified for the concept "Ultrasound guided biopsy". The use of this code is too restrictive, and its use in this context is deprecated. There is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use.
2. The incorrect code P1-43850 was previously used for mastectomy, presumably a two-character transposition of the actual SNOMED concept (P1-48350, SRT, "Mastectomy"); since the correct SNOMED concept is inactive (has a ConceptStatus in SNOMED of ambiguous) and there is no replacement, the corresponding UMLS concept (which maps to multiple coding schemes) is used instead. Currently SNOMED contains a more generic parent concept "Excision of breast tissue", which includes procedures that are less than a mastectomy, e.g., "excisional biopsy of breast", and only specific types of mastectomy, e.g., "simple mastectomy" or "mastectomy of left breast".

CID 6061 Breast Imaging Procedure Modifiers

Type: Extensible

Version: 20090819

Table CID 6061. Breast Imaging Procedure Modifiers

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | R-42453 | Screening | 360156006 | C1305399 |
| SRT | R-408C3 | Diagnostic | 261004008 | C0348026 |
| DCM | 111127 | Targeted | | |
| DCM | 111128 | Survey | | |
| DCM | 122505 | Calibration | | |
| DCM | 110002 | Quality Control | | |
| DCM | 111144 | Needle localization and biopsy | | |
| DCM | 111123 | Marker placement | | |

CID 6062 Interventional Procedure Complications

Type: Extensible

Version: 20160314

Table CID 6062. Interventional Procedure Complications

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | DD-66A67 | Hemorrhage postprocedure | 110265006 | C0032788 |
| DCM | 111491 | Abnormal discharge | | |
| SRT | F-01FBA | Hematoma - postoperative | 213262007 | C0472340 |
| SRT | D0-00165 | Weal | 247472004 | C0221232 |
| SRT | DD-67700 | Infection as complication of medical care | 69698001 | C0274432 |
| SRT | F-A2632 | Persistent pain following procedure | 279047007 | C0458166 |
| SRT | D2-80300 | Pneumothorax | 36118008 | C0032326 |
| SRT | D0-00058 | Rash | 271807003 | C0015230 |
| SRT | M-02570 | Swelling | 65124004 | C0038999 |
| SRT | F-A558A | Vasovagal syncope | 398665005 | C0042420 |
| DCM | 111492 | No complications | | |

CID 6063 Interventional Procedure Results

Type: Extensible

Version: 20040112

Table CID 6063. Interventional Procedure Results

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | G-A249 | Benign | 30807003 | C0205183 |
| SRT | R-41DDC | High risk tumor | 258270003 | C0475283 |
| SRT | G-A425 | Malignant | 21594007 | C0205282 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | M-09024 | Insufficient sample | 281268007 | C0460062 |
| SRT | F-01E06 | Indeterminate result | 280416009 | C0459425 |

CID 6064 Ultrasound Findings for Breast

Note

These terms were obtained from BI-RADS®

Type: Extensible
Version: 20160314

Table CID 6064. Ultrasound Findings for Breast

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | F-01BF8 | Ultrasound scan normal | 169254007 | C0581117 |
| SRT | D7-90035 | Cyst of breast | 399294002 | C0006144 |
| DCM | 111460 | Complex cyst | | |
| DCM | 111461 | Intracystic lesion | | |
| SRT | D7-90370 | Mammary duct ectasia | 22049009 | C0152442 |
| DCM | 111462 | Solid mass | | |
| SRT | T-C4000 | Lymph node | 59441001 | C0024204 |
| SRT | D7-90382 | Sebaceous cyst of skin of breast | 76649007 | C0342082 |
| DCM | 111129 | Clustered microcysts | | |
| DCM | 111130 | Complicated cyst | | |
| SRT | M-30400 | Foreign body | 19227008 | C0016542 |

CID 6065 Instrument Approach

Type: Extensible
Version: 20160314

Table CID 6065. Instrument Approach

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | R-404D5 | Medial | 255561001 | C0205098 |
| SRT | G-A104 | Lateral | 49370004 | C0205093 |
| SRT | R-42191 | Superior | 264217000 | C1282910 |
| SRT | R-4094A | Inferior | 261089000 | C0542339 |
| DCM | 111432 | Inferolateral to superomedial | | |
| DCM | 111433 | Inferomedial to superolateral | | |
| DCM | 111434 | Superolateral to inferomedial | | |
| DCM | 111435 | Superomedial to inferolateral | | |

CID 6066 Target Confirmation

Type: Extensible

Version: 20040112

Table CID 6066. Target Confirmation

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 111443 | Target contained in the specimen |
| DCM | 111444 | Target partially obtained in the specimen |
| DCM | 111445 | Target not in the specimen |
| DCM | 111446 | Calcifications seen in the core |
| DCM | 111447 | Lesion completely removed |
| DCM | 111448 | Lesion partially removed |
| DCM | 111449 | Fluid obtained |

CID 6067 Fluid Color

Type: Extensible
Version: 20040112

Table CID 6067. Fluid Color

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------|----------------------|------------------------|
| SRT | G-A12B | White color | 371251000 | C0220938 |
| SRT | G-A11D | Yellow color | 371244009 | C0221205 |
| DCM | 111450 | Light brown color | | |
| SRT | G-A11E | Green color | 371246006 | C0332583 |
| SRT | G-A12D | Gray color | 371253002 | C1269776 |
| DCM | 111451 | Dark red color | | |
| DCM | 111452 | Dark brown color | | |
| SRT | R-4205B | Clear | 263707001 | C2963144 |
| SRT | G-A12E | Brown color | 371254008 | C0678579 |
| DCM | 111453 | Bright red color | | |
| DCM | 111454 | Blood tinged color | | |
| SRT | G-A12C | Black color | 371252007 | C0439541 |

CID 6068 Tumor Stages From AJCC

Type: Extensible
Version: 20040112

Table CID 6068. Tumor Stages From AJCC

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 111494 | Stage 0 |
| DCM | 111495 | Stage I |
| DCM | 111496 | Stage IIA |
| DCM | 111497 | Stage IIB |
| DCM | 111498 | Stage IIIA |
| DCM | 111499 | Stage IIIB |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 111500 | Stage IIIC |
| DCM | 111501 | Stage IV |

CID 6069 Nottingham Combined Histologic Grade

Type: Extensible
Version: 20040112

Table CID 6069. Nottingham Combined Histologic Grade

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | F-02B9B | Nottingham Combined Grade cannot be determined | 384668003 | C1273755 |
| SRT | G-F616 | Nottingham Combined Grade I: 3-5 points | 369790002 | C1298194 |
| SRT | G-F617 | Nottingham Combined Grade II: 6-7 points | 369791003 | C1298195 |
| SRT | G-F618 | Nottingham Combined Grade III: 8-9 points | 369792005 | C1298196 |

CID 6070 Bloom-Richardson Histologic Grade

Type: Extensible
Version: 20040112

Table CID 6070. Bloom-Richardson Histologic Grade

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | G-F211 | Grade 1: well differentiated | 54102005 | C0475269 |
| SRT | G-F212 | Grade 2: moderately differentiated | 1663004 | C0475270 |
| SRT | G-F213 | Grade 3: poorly differentiated | 61026006 | C0475271 |
| SRT | R-41DC5 | Grade 4: undifferentiated | 258245003 | C0475272 |

CID 6071 Histologic Grading Method

Type: Extensible
Version: 20040112

Table CID 6071. Histologic Grading Method

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| DCM | 111502 | Bloom-Richardson Grade | | |
| SRT | R-00288 | Nottingham Combined Grade | 372276001 | C1276778 |

CID 6072 Breast Implant Findings

Note

These terms were obtained from BI-RADS®

Type: Extensible

Version: 20040112

Table CID 6072. Breast Implant Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| DCM | 111503 | Normal implants | | |
| DCM | 111504 | Asymmetric implants | | |
| DCM | 111505 | Calcified implant | | |
| DCM | 111506 | Distorted implant | | |
| DCM | 111507 | Silicone-laden lymph nodes | | |
| DCM | 111508 | Free silicone | | |
| DCM | 111509 | Herniated implant | | |
| SRT | DD-66544 | Rupture of breast implant | 237473006 | C0405491 |
| DCM | 111510 | Explantation | | |

CID 6080 Gynecological Hormones

Note

Some of these terms were obtained from BI-RADS®

Type: Extensible
Version: 20050822

Table CID 6080. Gynecological Hormones

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| SRT | C-B7100 | Contraceptives | 108899006 | C0009871 |
| SRT | C-A0900 | Estrogen product | 61946003 | C0014939 |
| SRT | C-A1204 | Progesterone product | 50318003 | C0033308 |
| SRT | C-781E0 | Tamoxifen | 75959001 | C0039286 |
| DCM | 111542 | Unspecified gynecological hormone | | |
| SRT | C-A0005 | Raloxifene | 109029006 | C0244404 |
| SRT | F-61B21 | Anastrozole | 386910003 | C0290883 |

CID 6081 Breast Cancer Risk Factors

Note

Some of these terms were obtained from BI-RADS®

Type: Extensible
Version: 20160314

Table CID 6081. Breast Cancer Risk Factors

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| DCM | 111550 | Personal breast cancer history | | |
| DCM | 111551 | History of endometrial cancer | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| DCM | 111552 | History of ovarian cancer | | |
| DCM | 111553 | History of high risk lesion on previous biopsy | | |
| DCM | 111554 | Post menopausal patient | | |
| SRT | F-84430 | Nulliparous | 102877006 | C0425979 |
| DCM | 111555 | Late child bearing (after 30) | | |
| DCM | 111556 | BRCA1 breast cancer gene | | |
| DCM | 111557 | BRCA2 breast cancer gene | | |
| DCM | 111558 | BRCA3 breast cancer gene | | |
| SRT | G-04C5 | Family history of breast cancer | 429740004 | C1261325 |
| DCM | 111559 | Weak family history of breast cancer | | |
| DCM | 111560 | Intermediate family history of breast cancer | | |
| DCM | 111561 | Very strong family history of breast cancer | | |
| DCM | 111562 | Family history of prostate cancer | | |
| DCM | 111563 | Family history unknown | | |
| SRT | R-207AD | No family history of breast carcinoma | 313376005 | C1277317 |

CID 6082 Gynecological Procedures

Type: Extensible
Version: 20040112

Table CID 6082. Gynecological Procedures

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | P0-05CCA | Endometrial biopsy | 386802000 | C1510477 |
| SRT | P1-8330D | Hysterectomy | 236886002 | C0020699 |
| SRT | P1-03151 | Dilation and curettage | 13091001 | C0012358 |

CID 6083 Procedures for Breast

Type: Extensible
Version: 20040112

Table CID 6083. Procedures for Breast

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|---------------------------|
| DCM | 111564 | Nipple discharge cytology |
| Include CID 6050 "Breast Procedure Reported" | | |
| Include CID 6084 "Mammoplasty Procedures" | | |
| Include CID 6085 "Therapies for Breast" | | |

CID 6084 Mammoplasty Procedures

Type: Extensible
Version: 20040112

Table CID 6084. Mammoplasty Procedures

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | P1-48501 | Breast implantation | 119853006 | C0178391 |
| SRT | P1-48830 | Reduction mammoplasty | 59214008 | C0191922 |
| SRT | P1-48820 | Breast reconstruction | 33496007 | C0085076 |
| SRT | P1-48520 | Removal of breast implant | 27315000 | C0191909 |

CID 6085 Therapies for Breast

Type: Extensible
Version: 20040112

Table CID 6085. Therapies for Breast

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | P0-0058E | Chemotherapy | 367336001 | C3665472 |
| SRT | P5-C0000 | Radiation therapy | 53438000 | C1522449 |
| SRT | P0-007AC | Hormone therapy | 169413002 | C0279025 |
| SRT | P1-67D40 | Bone marrow transplant | 23719005 | C0005961 |

CID 6086 Menopausal Phase

Type: Extensible
Version: 20040112

Table CID 6086. Menopausal Phase

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | R-41FFF | Before menopause | 309606002 | C0587111 |
| SRT | R-422A5 | During menopause | 303111005 | C0587112 |
| SRT | R-410C3 | After menopause | 307429007 | C0587113 |
| SRT | D7-76202 | Postsurgical menopause | 371036001 | C0740421 |
| SRT | D7-76200 | Artificial menopause state | 31351009 | C0232972 |

CID 6087 General Risk Factors

This context group collects risk factor terms from specialized risk factor context groups into one aggregate list for general purpose use.

Type: Extensible
Version: 20040112

Table CID 6087. General Risk Factors

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 6081 "Breast Cancer Risk Factors" | | |
| Include CID 6088 "OB-GYN Maternal Risk Factors" | | |

CID 6088 OB-GYN Maternal Risk Factors

Type: Extensible
Version: 20040112

Table CID 6088. OB-GYN Maternal Risk Factors

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | G-023F | History of - diabetes mellitus | 161445009 | C0455488 |
| SRT | G-0269 | History of - hypertension | 161501007 | C0455527 |
| SRT | G-0244 | History of - obesity | 161453001 | C0455493 |
| SRT | G-02D0 | History of - regular medication | 161656000 | C0455633 |
| SRT | G-0338 | History of substance abuse | 371422002 | C1299544 |
| SRT | G-0335 | History of - cardiovascular disease | 266995000 | C0455539 |
| DCM | 111565 | Uterine malformations | | |
| SRT | G-0304 | History of - ectopic pregnancy | 161763005 | C0438096 |
| DCM | 111566 | Spontaneous Abortion | | |
| DCM | 111567 | Gynecologic condition | | |
| DCM | 111568 | Gynecologic surgery | | |
| SRT | G-031E | History of - eclampsia | 161806007 | C0438072 |
| SRT | G-031F | History of - severe pre-eclampsia | 161807003 | C0438073 |
| DCM | 111569 | Previous LBW or IUGR birth | | |
| DCM | 111570 | Previous fetal malformation/syndrome | | |
| SRT | G-0305 | History of - premature delivery | 161765003 | C0438076 |
| DCM | 111571 | Previous RH negative or blood dyscrasia at birth | | |
| SRT | G-0319 | History of infertility | 161798008 | C0438063 |
| DCM | 111572 | History of multiple fetuses | | |
| SRT | D8-20100 | Multiple pregnancy | 16356006 | C0032989 |
| DCM | 111573 | Current pregnancy, known or suspected malformations/syndromes | | |
| DCM | 111574 | Family history, fetal malformation/syndrome | | |

CID 6089 Substances

Type: Extensible
Version: 20160314

Table CID 6089. Substances

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------|----------------------|------------------------|
| SRT | C-21047 | Ethyl alcohol | 419442005 | C0001962 |
| SRT | R-FBDEA | Amphetamine | 703842006 | C0002658 |
| SRT | F-61D6F | Marijuana | 398705004 | C0678449 |
| SRT | F-61C76 | Cocaine | 387085005 | C0009170 |
| SRT | F-61AC4 | Heroin | 387341002 | C0011892 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | C-63A10 | Lysergic acid diethylamide | 15698006 | C0024334 |
| SRT | F-6169A | Mescaline | 373780001 | C0025460 |
| SRT | C-6A180 | Phencyclidine | 9721008 | C0031381 |
| SRT | F-61A95 | Methadone | 387286002 | C0025605 |
| SRT | F-618D7 | Morphine | 373529000 | C0026549 |
| SRT | F-618FE | Methlyphenidate | 373337007 | C0025810 |
| SRT | C-F3310 | Chewing tobacco | 81911001 | C0008038 |
| SRT | C-F3302 | Cigarette smoking tobacco | 66562002 | C0301612 |
| SRT | F-61117 | Caffeine | 255641001 | C0006644 |

CID 6090 Relative Usage, Exposure Amount

Type: Extensible
Version: 20050822

Table CID 6090. Relative Usage, Exposure Amount

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------|
| DCM | 111575 | High |
| DCM | 111576 | Medium |
| DCM | 111577 | Low |
| DCM | 111587 | No known exposure |

CID 6091 Relative Frequency of Event Values

Type: Extensible
Version: 20040112

Table CID 6091. Relative Frequency of Event Values

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------|----------------------|------------------------|
| SRT | R-40377 | Continuous | 255238004 | C0549178 |
| SRT | G-7154 | Frequent | 70232002 | C0332183 |
| SRT | R-40365 | Mid-frequency | 255218000 | C0439604 |
| SRT | G-7155 | Infrequent | 27789000 | C0521114 |
| SRT | R-40B16 | As required | 225761000 | C0558288 |
| SRT | R-4112F | Single event | 307486002 | C0585347 |

CID 6092 Quantitative Concepts for Usage, Exposure

Type: Extensible
Version: 20040112

Table CID 6092. Quantitative Concepts for Usage, Exposure

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-C0B7 | Dosage | 260911001 | C0178602 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------|----------------------|------------------------|
| DCM | 111578 | Dose frequency | | |
| DCM | 111579 | Rate of exposure | | |
| DCM | 111580 | Volume of use | | |

CID 6093 Qualitative Concepts for Usage, Exposure Amount

Type: Extensible
Version: 20040112

Table CID 6093. Qualitative Concepts for Usage, Exposure Amount

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------------|
| DCM | 111581 | Relative dose amount |
| DCM | 111582 | Relative amount of exposure |
| DCM | 111583 | Relative amount of use |

CID 6094 Qualitative Concepts for Usage, Exposure Frequency

Type: Extensible
Version: 20040112

Table CID 6094. Qualitative Concepts for Usage, Exposure Frequency

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------|
| DCM | 111584 | Relative dose frequency |
| DCM | 111585 | Relative frequency of exposure |
| DCM | 111586 | Relative frequency of use |

CID 6095 Numeric Properties of Procedures

Type: Extensible
Version: 20040112

Table CID 6095. Numeric Properties of Procedures

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------|
| DCM | 111465 | Needle Gauge |
| DCM | 111467 | Needle Length |

CID 6096 Pregnancy Status

Type: Extensible
Version: 20040112

Table CID 6096. Pregnancy Status

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | F-81890 | not pregnant | 60001007 | C0232973 |
| SRT | F-84094 | possible pregnancy | 102874004 | C0425965 |
| SRT | F-84000 | patient currently pregnant | 77386006 | C0549206 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-41198 | Unknown | 261665006 | C0439673 |

CID 6097 Side of Family

Type: Extensible
Version: 20040112

Table CID 6097. Side of Family

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| DCM | 111541 | Maternal | | |
| SRT | R-40333 | Paternal | 224944003 | C0337493 |

CID 6100 Chest Component Categories

Type: Extensible
Version: 20030108

Table CID 6100. Chest Component Categories

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | T-28000 | Lung | 39607008 | C0024109 |
| DCM | 112052 | Bronchovascular | | |
| SRT | T-29000 | Pleural structure | 3120008 | C0032225 |
| SRT | T-D3300 | Mediastinum | 72410000 | C0025066 |
| SRT | T-32000 | Heart | 80891009 | C0018787 |
| DCM | 112053 | Osseous | | |
| SRT | T-4000E | Systemic vascular structure | 281157001 | C0459962 |
| SRT | R-420AE | Muscular | 263816006 | C0442025 |

CID 6101 Chest Finding or Feature

Type: Extensible
Version: 20030108

Table CID 6101. Chest Finding or Feature

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------|
| DCM | 112061 | Abnormal lines (1D) |
| DCM | 112033 | Abnormal opacity |
| DCM | 112062 | Abnormal lucency |
| DCM | 112063 | Abnormal calcifications |
| DCM | 112064 | Abnormal texture |
| DCM | 112005 | Radiographic anatomy |
| DCM | 111102 | Non-lesion |
| DCM | 111101 | Image quality |
| DCM | 111099 | Selected region |

CID 6102 Chest Finding or Feature Modifier

Type: Extensible
Version: 20030108

Table CID 6102. Chest Finding or Feature Modifier

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 6103 "Abnormal Lines Finding or Feature"</i> | | |
| <i>Include CID 6104 "Abnormal Opacity Finding or Feature"</i> | | |
| <i>Include CID 6105 "Abnormal Lucency Finding or Feature"</i> | | |
| <i>Include CID 6106 "Abnormal Texture Finding or Feature"</i> | | |
| <i>Include CID 6109 "Radiographic Anatomy Finding or Feature"</i> | | |
| <i>Include CID 6138 "Chest Non-lesion Object Type"</i> | | |

CID 6103 Abnormal Lines Finding or Feature

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6103. Abnormal Lines Finding or Feature

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| DCM | 112065 | Reticulonodular pattern | | |
| DCM | 112104 | Air-fluid level | | |
| DCM | 112105 | Corona radiata | | |
| DCM | 112106 | Honeycomb pattern | | |
| DCM | 112107 | Fleischner's line(s) | | |
| DCM | 112108 | Intralobular lines | | |
| DCM | 112109 | Kerley A line | | |
| DCM | 112110 | Kerley B line | | |
| DCM | 112111 | Kerley C lines | | |
| DCM | 112112 | Parenchymal band | | |
| SRT | D2-60302 | Plate-like atelectasis | 40779009 | C0264494 |
| DCM | 112113 | Reticular pattern | | |
| DCM | 112114 | Septal line(s) | | |
| DCM | 112115 | Subpleural line | | |
| DCM | 112116 | Tramline shadow | | |
| DCM | 112117 | Tubular shadow | | |

CID 6104 Abnormal Opacity Finding or Feature

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6104. Abnormal Opacity Finding or Feature

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| DCM | 112066 | Beaded septum sign | | |
| DCM | 112067 | Nodular pattern | | |
| DCM | 112059 | Primary complex | | |
| DCM | 112068 | Pseudoplaque | | |
| DCM | 112065 | Reticulonodular pattern | | |
| DCM | 112069 | Signet-ring sign | | |
| DCM | 112004 | Abnormal interstitial pattern | | |
| SRT | F-20172 | Coin lesion | 308689002 | C0009250 |
| DCM | 112118 | Density | | |
| DCM | 112119 | Dependent opacity | | |
| DCM | 112120 | Ground glass opacity | | |
| DCM | 112121 | Infiltrate | | |
| SRT | M-03000 | Mass | 4147007 | C0577559 |
| DCM | 112122 | Micronodule | | |
| SRT | M-03010 | Nodule | 27925004 | C0028259 |
| DCM | 112001 | Opacity | | |
| DCM | 112123 | Phantom tumor (pseudotumor) | | |
| DCM | 112124 | Shadow | | |
| DCM | 112125 | Small irregular opacities | | |
| DCM | 112126 | Small rounded opacities | | |
| DCM | 112127 | Tree-in-bud sign | | |
| SRT | D3-40230 | Pulmonary embolism | 59282003 | C0034065 |

CID 6105 Abnormal Lucency Finding or Feature

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6105. Abnormal Lucency Finding or Feature

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| DCM | 112070 | Air bronchiogram | | |
| DCM | 112071 | Air bronchogram | | |
| DCM | 112072 | Air crescent | | |
| SRT | F-20240 | Air-trapping | 76171001 | C0231819 |
| DCM | 112073 | Halo sign | | |
| SRT | D2-81180 | Pneumomediastinum | 16838000 | C0025062 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | D2-80300 | Pneumothorax | 36118008 | C0032326 |

CID 6106 Abnormal Texture Finding or Feature

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6106. Abnormal Texture Finding or Feature

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------|
| DCM | 112067 | Nodular pattern |
| DCM | 112065 | Reticulonodular pattern |
| DCM | 112004 | Abnormal interstitial pattern |
| DCM | 112128 | Granular pattern |
| DCM | 112106 | Honeycomb pattern |
| DCM | 112129 | Miliary pattern |
| DCM | 112130 | Mosaic pattern |
| DCM | 112113 | Reticular pattern |
| DCM | 112125 | Small irregular opacities |

CID 6107 Width Descriptor

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6107. Width Descriptor

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------|----------------------|------------------------|
| SRT | R-40750 | Enlarged | 260376009 | C0442800 |
| SRT | R-41727 | Narrow | 134223000 | C0333164 |
| DCM | 112077 | Vasoconstriction | | |
| DCM | 112078 | Vasodilation | | |

CID 6108 Chest Anatomic Structure Abnormal Distribution

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6108. Chest Anatomic Structure Abnormal Distribution

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | F-20240 | Air-trapping | 76171001 | C0231819 |
| DCM | 112079 | Architectural distortion | | |
| DCM | 112080 | Mosaic perfusion | | |
| DCM | 112060 | Oligemia | | |
| DCM | 112081 | Pleonemia | | |

CID 6109 Radiographic Anatomy Finding or Feature

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6109. Radiographic Anatomy Finding or Feature

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 6110 "Lung Anatomy Finding or Feature"</i> | | |
| <i>Include CID 6111 "Bronchovascular Anatomy Finding or Feature"</i> | | |
| <i>Include CID 6112 "Pleura Anatomy Finding or Feature"</i> | | |
| <i>Include CID 6113 "Mediastinum Anatomy Finding or Feature"</i> | | |
| <i>Include CID 6114 "Osseous Anatomy Finding or Feature"</i> | | |
| <i>Include CID 6116 "Muscular Anatomy"</i> | | |
| <i>Include CID 6117 "Vascular Anatomy"</i> | | |
| DCM | 112082 | Interface |
| DCM | 112083 | Line |
| DCM | 112084 | Lucency |

CID 6110 Lung Anatomy Finding or Feature

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6110. Lung Anatomy Finding or Feature

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | T-28770 | Lobe of lung | 31094006 | C0225752 |
| DCM | 112085 | Midlung window | | |
| DCM | 112054 | Secondary pulmonary lobule | | |
| SRT | T-280D0 | Segment of lung | 72674008 | C0225705 |

CID 6111 Bronchovascular Anatomy Finding or Feature

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6111. Bronchovascular Anatomy Finding or Feature

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | T-20001 | Airway structure | 89187006 | C0458827 |
| SRT | T-26000 | Bronchus | 955009 | C0006255 |
| SRT | T-25201 | Carina | 28700002 | C0225594 |
| DCM | 112086 | Carina angle | | |
| DCM | 112087 | Centrilobular structures | | |
| SRT | T-28080 | Hilum of lung | 46750007 | C0225701 |

CID 6112 Pleura Anatomy Finding or Feature

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6112. Pleura Anatomy Finding or Feature

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| DCM | 112088 | Anterior junction line | | |
| SRT | T-D051D | Fissure of lung | 278983006 | C0458078 |
| DCM | 112089 | Posterior junction line | | |

CID 6113 Mediastinum Anatomy Finding or Feature

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20130617

Table CID 6113. Mediastinum Anatomy Finding or Feature

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | T-15420 | Acromioclavicular Joint | 85856004 | C0001208 |
| SRT | T-35400 | Aortic Valve | 34202007 | C0003501 |
| SRT | D4-31220 | Atrial Septal Defect | 70142008 | C0018817 |
| SRT | T-32100 | Atrium | 59652004 | C0018792 |
| SRT | T-18774 | Axillary Fascia | 368536000 | C0225236 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| DCM | 112090 | Azygoesophageal recess interface | | |
| SRT | T-25201 | Carina | 28700002 | C0225594 |
| SRT | T-B4000 | Carotid Body | 51345006 | C0007277 |
| SRT | T-11240 | Costal Cartilage | 50016007 | C0222787 |
| SRT | T-D3412 | Esophageal Hiatus | 280062008 | C0230160 |
| SRT | T-56000 | Esophagus | 32849002 | C0014876 |
| SRT | T-D0634 | Fascial layer | 120576005 | C1268198 |
| SRT | T-32000 | Heart | 80891009 | C0018787 |
| DCM | 112095 | Hiatus | | |
| SRT | T-26500 | Left main bronchus | 75245000 | C0225630 |
| SRT | T-42370 | Ligamentum arteriosum | 2160002 | C0226023 |
| SRT | T-C4000 | Lymph node | 59441001 | C0024204 |
| SRT | T-35300 | Mitral Valve | 91134007 | C0026264 |
| DCM | 112091 | Paraspinal line | | |
| DCM | 112092 | Posterior tracheal stripe | | |
| SRT | T-35200 | Pulmonary valve | 39057004 | C0034086 |
| SRT | T-26100 | Right main bronchus | 70074004 | C0225608 |
| DCM | 112093 | Right tracheal stripe | | |
| DCM | 112094 | Stripe | | |
| SRT | T-C6510 | Thoracic Duct | 1732005 | C0039979 |
| SRT | T-C8000 | Thymus Gland | 9875009 | C0040113 |
| SRT | T-B6000 | Thyroid | 69748006 | C0040132 |
| SRT | T-25000 | Trachea | 44567001 | C0040578 |
| SRT | T-14171 | Trapezius muscle | 31764008 | C0224361 |
| SRT | T-35100 | Tricuspid Valve | 46030003 | C0040960 |
| SRT | T-32400 | Ventricle | 21814001 | C0018827 |

CID 6114 Osseous Anatomy Finding or Feature

Type: Extensible
Version: 20030108

Table CID 6114. Osseous Anatomy Finding or Feature

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | T-12310 | Clavicle | 51299004 | C0008913 |
| SRT | T-12410 | Humerus | 85050009 | C0020164 |
| SRT | T-11300 | Rib | 113197003 | C0035561 |
| SRT | T-12280 | Scapula | 79601000 | C0036277 |
| SRT | T-11500 | Spine | 44300000 | C1267072 |
| SRT | T-11210 | Sternum | 56873002 | C0038293 |
| SRT | T-11510 | Vertebra | 51282000 | C0549207 |

CID 6115 Osseous Anatomy Modifiers

Type: Extensible
Version: 20160314

Table CID 6115. Osseous Anatomy Modifiers

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-12281 | Acromion process of scapula | 31934006 | C0001209 |
| SRT | T-11307 | Angle of rib | 14510004 | C0222812 |
| SRT | T-11511 | Arch of vertebra | 40265002 | C0223076 |
| SRT | T-11220 | Body of sternum | 52509009 | C0222771 |
| SRT | T-11219 | Clavicular notch of sternum | 75319007 | C0222770 |
| SRT | T-12282 | Coracoid process of scapula | 8931003 | C0223626 |
| SRT | T-11308 | Costal groove | 17399006 | C0222813 |
| SRT | T-12287 | Dorsal aspect of scapula | 51698000 | C0223631 |
| SRT | T-1228A | Glenoid cavity of scapula | 46385009 | C1261046 |
| SRT | T-11301 | Head of rib | 12872006 | C0222806 |
| SRT | T-116EF | Inferior articular facet of axis | 181901007 | C0223115 |
| SRT | T-1153F | Inferior articular process of vertebra | 317766009 | C0223083 |
| SRT | T-11514 | Lamina of vertebra | 89340005 | C0223079 |
| SRT | T-11211 | Manubrium of sternum | 37285002 | C0024764 |
| SRT | T-11303 | Neck of rib | 72184008 | C0222808 |
| SRT | T-12200 | Pectoral girdle | 26444007 | C0427245 |
| SRT | T-11515 | Pedicle of vertebra | 78972004 | C0223080 |
| DCM | 112096 | Rib Scalene Tubercle | | |
| DCM | 112101 | Scapular Infraspinatus Fossa | | |
| DCM | 112099 | Scapular Spine | | |
| DCM | 112100 | Scapular Supraspinatus Fossa | | |
| SRT | T-11309 | Shaft of rib | 41601005 | C0448161 |
| SRT | T-11512 | Spinous process of vertebra | 55678000 | C0223077 |
| SRT | T-11221 | Sternal angle | 44612009 | C0222772 |
| DCM | 112098 | Subscapular Fossa | | |
| SRT | T-116EE | Superior articular facet of axis | 181900008 | C0223114 |
| SRT | T-1153E | Superior articular process of vertebra | 317665004 | C0223082 |
| SRT | T-11218 | Suprasternal notch | 26493002 | C0222769 |
| SRT | T-11513 | Transverse process or vertebra | 73400003 | C0223078 |
| SRT | T-11304 | Tubercle of rib | 113198008 | C0222809 |
| SRT | T-1151F | Vertebral canal | 61853006 | C0037922 |
| SRT | T-11531 | Vertebral foramen | 280734009 | C0459720 |
| DCM | 112097 | Vertebral Intervertebral Notch | | |
| SRT | T-11227 | Xiphoid process of sternum | 20298003 | C0043356 |

CID 6116 Muscular Anatomy

Type: Extensible
Version: 20130617

Table CID 6116. Muscular Anatomy

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | T-35020 | Chordae tendineae cordis | 102298001 | C0008484 |
| SRT | T-13660 | Deltoid muscle | 35259002 | C0224234 |
| SRT | T-D3400 | Diaphragm | 5798000 | C0011980 |
| SRT | T-14020 | Erector spinae muscle | 44947003 | C0224301 |
| SRT | T-1416B | External intercostal muscle | 244878003 | C0224353 |
| SRT | T-14030 | Iliocostalis muscle | 57651003 | C0224302 |
| SRT | T-13620 | Infraspinatus muscle | 72573008 | C0584882 |
| SRT | T-14165 | Innermost intercostal muscles | 24062007 | C0224357 |
| SRT | T-32150 | Interatrial septum | 58095006 | C0225836 |
| SRT | T-14183 | Internal intercostal muscle | 244890001 | C0224355 |
| SRT | T-32410 | Interventricular septum | 589001 | C0225870 |
| SRT | T-14172 | Latissimus dorsi muscle | 15665001 | C0224362 |
| SRT | T-14150 | Levatores costarum muscles | 73930003 | C1744586 |
| SRT | T-14040 | Longissimus muscle | 88340001 | C0224306 |
| SRT | T-14110 | Pectoralis major muscle | 60005003 | C0585574 |
| SRT | T-14120 | Pectoralis minor muscle | 18686000 | C0224347 |
| SRT | T-13450 | Scalenus anterior muscle | 50755001 | C0224173 |
| SRT | T-14140 | Serratus anterior muscle | 18346003 | C0224349 |
| SRT | T-14050 | Spinalis muscle | 4317002 | C0224310 |
| SRT | T-13310 | Sternocleidomastoid muscle | 22823000 | C0224153 |
| SRT | T-14166 | Subcostal muscle | 64658001 | C0224358 |
| SRT | T-13650 | Subscapularis muscle | 90588001 | C0584884 |
| SRT | T-13610 | Supraspinatus muscle | 6423006 | C0584869 |
| SRT | T-13640 | Teres major muscle | 1193009 | C0224232 |
| SRT | T-13630 | Teres minor muscle | 51159009 | C0224231 |
| SRT | T-32423 | Trabeculae carnae | 118755002 | C0502348 |
| SRT | T-141A5 | Transversus thoracis | 244933000 | C0224359 |
| SRT | T-14171 | Trapezius muscle | 31764008 | C0224361 |

CID 6117 Vascular Anatomy

Type: Extensible
Version: 20130617

Table CID 6117. Vascular Anatomy

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------------------|------------|--------------|----------------------|------------------------|
| Include CID 3015 "Coronary Arteries" | | | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | T-42300 | Aortic arch | 57034009 | C0003489 |
| SRT | T-42310 | Aortic isthmus | 88593004 | C0226019 |
| DCM | 112102 | Aortic knob | | |
| DCM | 112103 | Arch of the Azygos vein | | |
| SRT | T-42100 | Ascending aorta | 54247002 | C0003956 |
| SRT | T-47100 | Axillary Artery | 67937003 | C0004455 |
| SRT | T-49110 | Axillary vein | 68705008 | C0004456 |
| SRT | T-48340 | Azygos vein | 72107004 | C0004526 |
| SRT | T-47160 | Brachial artery | 17137000 | C0006087 |
| SRT | T-A9090 | Brachial plexus | 36582005 | C0006090 |
| SRT | T-46010 | Brachiocephalic trunk | 12691009 | C0006094 |
| SRT | T-48620 | Brachiocephalic vein | 8887007 | C0006095 |
| SRT | T-46310 | Bronchial artery | 64468002 | C0006257 |
| SRT | T-45100 | Common carotid artery | 32062004 | C0162859 |
| SRT | T-46180 | Costocervical trunk | 3159004 | C0226273 |
| SRT | T-D0765 | Descending aorta | 281130003 | C0011666 |
| SRT | T-461A0 | Dorsal scapular artery | 91732003 | C0500583 |
| SRT | T-4630D | Esophageal artery | 206034008 | C0226294 |
| SRT | T-46940 | Inferior phrenic artery | 29660000 | C0226406 |
| SRT | T-48710 | Inferior vena cava | 64131007 | C0042458 |
| SRT | T-D305A | Intercostal artery | 281134007 | C0459917 |
| SRT | T-48170 | Internal jugular vein | 12123001 | C0226550 |
| SRT | T-46200 | Internal thoracic artery | 69327007 | C0226276 |
| SRT | T-46210 | Pericardiophrenic Artery | 3924000 | C0226287 |
| SRT | T-44000 | Pulmonary artery | 81040000 | C0034052 |
| SRT | T-44100 | Pulmonary trunk | 45341000 | C0034052 |
| SRT | T-48581 | Pulmonary vein | 122972007 | C0034090 |
| SRT | T-46100 | Subclavian artery | 36765005 | C0038530 |
| SRT | T-48330 | Subclavian vein | 9454009 | C0038532 |
| SRT | T-46350 | Superior phrenic artery | 38991005 | C0226295 |
| SRT | T-48610 | Superior vena cava | 48345005 | C0042459 |
| SRT | T-46130 | Thyrocervical trunk | 6538005 | C0226263 |
| SRT | T-45700 | Vertebral artery | 85234005 | C0042559 |

Note

In a prior version of this Context Group the code T-48500 rather than T-48581 was defined for the concept Pulmonary Vein; this was inconsistent with the DICOM approach of selecting the "structure of" rather than "entire" concept. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.

CID 6118 Size Descriptor

Type: Extensible
Version: 20030108

Table CID 6118. Size Descriptor

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| DCM | 112131 | Extremely small | | |
| DCM | 112132 | Very small | | |
| SRT | R-404A8 | Small | 255507004 | C0700321 |
| SRT | R-404A9 | Medium | 255508009 | C0439536 |
| SRT | R-404AA | Large | 255509001 | C0549177 |
| SRT | R-40750 | Enlarged | 260376009 | C0442800 |
| DCM | 112133 | Too small | | |

CID 6119 Chest Border Shape

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6119. Chest Border Shape

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | M-02100 | Round shape | 42700002 | C0332490 |
| DCM | 112134 | Elliptic | | |
| SRT | G-A402 | Irregular | 49608001 | C0205271 |
| DCM | 112135 | Lobulated | | |
| DCM | 112136 | Spiculated | | |

CID 6120 Chest Border Definition

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6120. Chest Border Definition

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------|----------------------|------------------------|
| SRT | R-40771 | Well defined | 260409000 | C0442825 |
| DCM | 112137 | Sharply defined | | |
| SRT | R-428E7 | Poorly defined | 300841009 | C0577553 |
| DCM | 112138 | Distinctly defined | | |
| DCM | 112139 | Well demarcated | | |
| DCM | 112140 | Sharply demarcated | | |
| DCM | 112141 | Poorly demarcated | | |
| DCM | 112142 | Circumscribed | | |

CID 6121 Chest Orientation Descriptor

Type: Extensible
Version: 20030108

Table CID 6121. Chest Orientation Descriptor

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A142 | Horizontal | 24020000 | C0205126 |
| SRT | G-A144 | Vertical | 33096000 | C0205128 |
| SRT | G-A472 | Oblique | 21114003 | C0205315 |

CID 6122 Chest Content Descriptor

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6122. Chest Content Descriptor

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| DCM | 112143 | Air | | |
| SRT | T-D008A | Fat | 256674009 | C0015677 |
| DCM | 112144 | Soft tissue | | |
| DCM | 112145 | Calcium | | |
| SRT | M-30400 | Foreign material (iodized oil, mercury, talc) | 19227008 | C0016542 |

CID 6123 Chest Opacity Descriptor

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6123. Chest Opacity Descriptor

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------|
| DCM | 112146 | Acinar |
| DCM | 112147 | Air space |
| DCM | 112148 | Fibronodular |
| DCM | 112149 | Fluffy |
| DCM | 112150 | Linear |
| DCM | 112151 | Profusion |
| DCM | 112152 | Silhouette sign |

CID 6124 Location in Chest

Type: Extensible
Version: 20030108

Table CID 6124. Location in Chest

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 6125 "General Chest Location" | | |
| Include CID 6126 "Location in Lung" | | |
| Include CID 6127 "Segment Location in Lung" | | |

CID 6125 General Chest Location

Type: Extensible
Version: 20030108

Table CID 6125. General Chest Location

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A110 | Central | 26216008 | C0205099 |
| SRT | G-A111 | Peripheral | 14414005 | C0205100 |
| SRT | G-A122 | Apical | 43674008 | C0205111 |
| SRT | G-A123 | Basal | 57195005 | C0205112 |

CID 6126 Location in Lung

Type: Extensible
Version: 20030108

Table CID 6126. Location in Lung

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------|----------------------|------------------------|
| SRT | T-D3208 | Upper zone of lung | 281392002 | C0559286 |
| SRT | T-D3209 | Middle zone of lung | 281393007 | C0559287 |
| SRT | T-D320A | Lower zone of lung | 281394001 | C0559288 |
| SRT | T-28820 | Upper lobe of lung | 45653009 | C0225756 |
| SRT | T-28825 | Middle lobe of lung | 40020002 | C0225757 |
| SRT | T-28830 | Lower lobe of lung | 90572001 | C0225758 |
| DCM | 112153 | Subpleural | | |

CID 6127 Segment Location in Lung

Type: Extensible
Version: 20030108

Table CID 6127. Segment Location in Lung

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | T-28230 | Anterior segment of right upper lobe | 39743006 | C0225718 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | T-28630 | Anterior segment of left upper lobe | 22270008 | C0225742 |
| SRT | T-28220 | Posterior segment of right upper lobe | 3236000 | C0225717 |

CID 6128 Chest Distribution Descriptor

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6128. Chest Distribution Descriptor

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| DCM | 112154 | Bat's wing distribution | | |
| DCM | 112155 | Butterfly distribution | | |
| DCM | 112156 | Centrilobular | | |
| DCM | 112157 | Coalescent | | |
| SRT | G-A321 | Diffuse | 19648000 | C0205219 |
| SRT | M-020FA | Discoid | 255282008 | C0439641 |
| SRT | G-A324 | Disseminated | 65709003 | C0205221 |
| SRT | G-A351 | Focal | 87017008 | C0205234 |
| SRT | G-A366 | Generalized | 60132005 | C0205246 |
| DCM | 112158 | Lobar | | |
| SRT | G-A443 | Multifocal | 524008 | C0205292 |
| SRT | G-A137 | Segmental | 62372003 | C0205122 |
| SRT | G-A572 | Systemic | 31099001 | C0205373 |

CID 6129 Chest Site Involvement

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6129. Chest Site Involvement

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------|----------------------|------------------------|
| SRT | T-28000 | Lung | 39607008 | C0024109 |
| SRT | T-D3300 | Mediastinum | 72410000 | C0025066 |
| DCM | 112158 | Lobar | | |
| SRT | T-1A007 | Interstitial tissue | 85293002 | C0225318 |
| SRT | R-40939 | Bronchial | 261061003 | C0205039 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | T-28080 | Hilum of lung | 46750007 | C0225701 |
| SRT | T-42000 | Aorta | 15825003 | C0003483 |
| SRT | T-29000 | Pleural structure | 3120008 | C0032225 |
| SRT | T-D3050 | Chest wall | 78904004 | C0205076 |
| SRT | T-D4001 | Upper abdomen | 80581009 | C2937240 |

CID 6130 Severity Descriptor

Type: Extensible
Version: 20160314

Table CID 6130. Severity Descriptor

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-404FA | Mild | 255604002 | C2945599 |
| SRT | G-A002 | Moderate | 6736007 | C0205081 |
| SRT | G-A003 | Severe | 24484000 | C0205082 |
| SRT | R-424BE | Acute onset | 373933003 | C1276802 |
| SRT | G-A270 | Chronic | 90734009 | C0205191 |
| DCM | 112159 | Hyper-acute | | |
| SRT | G-A561 | Subacute | 19939008 | C0205365 |

CID 6131 Chest Texture Descriptor

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6131. Chest Texture Descriptor

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------|
| DCM | 112160 | Homogeneous (uniform opacity) |
| DCM | 112161 | Inhomogeneous |

CID 6132 Chest Calcification Descriptor

Note

Original source of terms is [Fraser and Pare].

Type: Extensible
Version: 20030108

Table CID 6132. Chest Calcification Descriptor

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | F-01763 | Eggshell calcification | 129751002 | C1313950 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|
| SRT | F-01761 | Coarse (popcorn-like) calcification | 129749001 | C1268677 |
| DCM | 112162 | Target | | |
| SRT | G-A405 | Laminated | 88446008 | C0205274 |
| DCM | 112163 | Fibrocalcific | | |
| DCM | 112164 | Flocculent | | |
| SRT | R-403A7 | Nodular | 255288007 | C0205297 |
| SRT | F-12100 | Ossification | 83323007 | 83323007 |

CID 6133 Chest Quantitative Temporal Difference Type

Type: Extensible
Version: 20100604

Table CID 6133. Chest Quantitative Temporal Difference Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | F-05173 | Difference in size | 442714003 | C2711955 |
| SRT | F-05179 | Difference in location | 442726008 | C2711109 |

CID 6134 Chest Qualitative Temporal Difference Type

Type: Extensible
Version: 20090717

Table CID 6134. Chest Qualitative Temporal Difference Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | F-0517E | Difference in border shape | 442755000 | C2711283 |
| SRT | F-05166 | Difference in border definition | 442688001 | C2711343 |
| SRT | F-0516C | Difference in distribution | 442704007 | C2711851 |
| SRT | F-05170 | Difference in site involvement | 442711006 | C2711937 |
| SRT | F-05167 | Difference in substance | 442691001 | C2711644 |
| SRT | F-0516A | Difference in Texture | 442700003 | C2711323 |
| SRT | F-01722 | Finding partially removed | 129722001 | C1268650 |
| SRT | F-01723 | No significant changes in the finding | 129723006 | C1268651 |
| SRT | M-02520 | Increase in size | 15454001 | C0332509 |
| SRT | M-02530 | Decrease in size | 19776001 | C0332511 |
| SRT | F-01728 | Less defined | 129728002 | C1268656 |
| SRT | F-01729 | More defined | 129729005 | C1268657 |

CID 6135 Image Quality Finding

Type: Extensible
Version: 20090402

Table CID 6135. Image Quality Finding

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 111208 | Grid artifact(s) |
| DCM | 111209 | Positioning |
| DCM | 111210 | Motion blur |
| DCM | 111211 | Under exposed |
| DCM | 111212 | Over exposed |
| DCM | 111213 | No image |
| DCM | 111214 | Detector artifact(s) |
| DCM | 111215 | Artifact(s) other than grid or detector artifact |
| DCM | 111216 | Mechanical failure |
| DCM | 111217 | Electrical failure |
| DCM | 111218 | Software failure |
| DCM | 111219 | Inappropriate image processing |
| DCM | 111220 | Other failure |
| DCM | 111221 | Unknown failure |
| RADLEX | RID11327 | Beam-hardening artifact |

CID 6136 Chest Types of Quality Control Standard

Type: Extensible
Version: 20030108

Table CID 6136. Chest Types of Quality Control Standard

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 112035 | Performance of Pediatric and Adult Chest Radiography, ACR |
| DCM | 112036 | ACR Position Statement |
| DCM | 111240 | Institutionally defined quality control standard |
| DCM | 112184 | Performance of Pediatric and Adult Thoracic CT |
| DCM | 112185 | Performance of CT for Detection of Pulmonary Embolism in Adults |
| DCM | 112186 | Performance of High-Resolution CT of the Lungs in Adults |

CID 6137 Types of CAD Analysis

Type: Extensible
Version: 20030108

Table CID 6137. Types of CAD Analysis

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Notes |
|--------------------------|------------|------------------------------|----------------------|------------------------|------------|
| SRT | P5-B3402 | Spatial collocation analysis | 133884007 | C1297892 | See Note 1 |
| SRT | P5-B3404 | Spatial proximity analysis | 133885008 | C1297893 | See Note 2 |
| SRT | P5-B3406 | Temporal correlation | 133886009 | C1297894 | |
| SRT | P5-B3408 | Image quality analysis | 133887000 | C1297895 | |

Note

1. Spatial Co-location Analysis is used to identify features that are the same or located in the same place.
2. Spatial Proximity Analysis is used to identify different features that are related spatially.

CID 6138 Chest Non-lesion Object Type

Type: Extensible
Version: 20160314

Table CID 6138. Chest Non-lesion Object Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | A-32110 | Bullet | 86122002 | C0336699 |
| SRT | A-11100 | Cardiac Pacemaker | 14106009 | C0030163 |
| SRT | A-040CB | Cardiac pacemaker lead | 360129009 | C1283151 |
| SRT | A-26800 | Catheter | 19923001 | C0085590 |
| DCM | 112174 | Central line | | |
| SRT | A-12210 | Cervical collar | 63562005 | C0175751 |
| DCM | 112173 | Chest tube | | |
| DCM | 112178 | Coin | | |
| SRT | A-25350 | Endotracheal tube | 26412008 | C0336630 |
| SRT | A-26430 | Feeding tube | 25062003 | C2945625 |
| DCM | 112171 | Fiducial mark | | |
| SRT | A-04110 | Heart valve prosthesis | 25510005 | C0018825 |
| SRT | A-26434 | Jejunostomy tube | 126065006 | C0879216 |
| SRT | A-61000 | Jewelry | 80919006 | C0336902 |
| DCM | 112175 | Kidney stent | | |
| SRT | A-30360 | Needle | 79068005 | C0027551 |
| DCM | 112177 | Nipple ring | | |
| DCM | 112176 | Pancreatic stent | | |
| SRT | A-12024 | Pin | 77444004 | C0175718 |
| DCM | 112172 | Portacath | | |
| SRT | A-04000 | Prosthesis | 53350007 | C0175649 |
| SRT | M-78060 | Scar tissue | 12402003 | C2004491 |
| SRT | A-13600 | Staple | 56353002 | C0524724 |
| SRT | A-13500 | Suture | 27065002 | C0038969 |
| SRT | P1-26100 | Tracheotomy | 48387007 | C0040590 |
| SRT | A-11C08 | Ureteric stent | 286558002 | C0183518 |
| SRT | A-14611 | Vena cava filter | 257409000 | C0080306 |

Note

The use of (111176, DCM, "Unspecified") was previously included in this context group but was removed since it does not make sense to have Chest CAD detections of an unknown type (was using TID 4015 "CAD Detections Performed" invoked by TID 4100 "Chest CAD Document Root", TID 4102 "Chest CAD Composite Feature" and TID 4104 "Chest CAD Single Image Finding" of an unknown type).

CID 6139 Non-lesion Modifiers

Type: Extensible
Version: 20030108

Table CID 6139. Non-lesion Modifiers

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-40819 | Internal | 260521003 | C0205102 |
| SRT | R-40941 | External | 261074009 | C0205101 |

CID 6140 Calculation Methods

Type: Extensible
Version: 20070625

Table CID 6140. Calculation Methods

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| SRT | R-10260 | Estimated | 414135002 | C0750572 |
| DCM | 112187 | Unspecified method of calculation | | |
| DCM | 112055 | Agatston scoring method | | |
| DCM | 112056 | Volume scoring method | | |
| DCM | 112057 | Mass scoring method | | |
| DCM | 112188 | Two-dimensional method | | |
| DCM | 112189 | Three-dimensional method | | |

CID 6141 Attenuation Coefficient Measurements

Type: Extensible
Version: 20030108

Table CID 6141. Attenuation Coefficient Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 112031 | Attenuation Coefficient |
| DCM | 112179 | Minimum Attenuation Coefficient |
| DCM | 112180 | Maximum Attenuation Coefficient |
| DCM | 112181 | Mean Attenuation Coefficient |
| DCM | 112182 | Median Attenuation Coefficient |
| DCM | 112183 | Standard Deviation of Attenuation Coefficient |

CID 6142 Calculated Value

Type: Extensible
Version: 20070625

Table CID 6142. Calculated Value

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------------|
| DCM | 112017 | Cavity extent as percent of volume |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 112018 | Calcification extent as percent of surface |
| DCM | 112019 | Calcification extent as percent of volume |
| DCM | 112058 | Calcium score |
| DCM | 112191 | Breast tissue density |
| DCM | 112192 | Volume of parenchymal tissue |
| DCM | 112193 | Volume of breast |
| DCM | 112194 | Mass of parenchymal tissue |
| DCM | 112195 | Mass of breast |
| DCM | 112196 | Area of Vascular Calcification |
| DCM | 112197 | Volume of Vascular Calcification |
| DCM | 112198 | Percentage of Vascular Calcification |
| DCM | 112199 | Mass of Vascular Calcification |
| DCM | 112200 | Average calcification distance in a calcification cluster |
| DCM | 112201 | Standard deviation distance of calcifications in a cluster |

CID 6143 Lesion Response

Type: Extensible
Version: 20030108

Table CID 6143. Lesion Response

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 6144 "RECIST Defined Lesion Response" | | |

CID 6144 RECIST Defined Lesion Response

Type: Extensible
Version: 20030108

Table CID 6144. RECIST Defined Lesion Response

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 112041 | Target Lesion Complete Response |
| DCM | 112042 | Target Lesion Partial Response |
| DCM | 112043 | Target Lesion Progressive Disease |
| DCM | 112044 | Target Lesion Stable Disease |
| DCM | 112045 | Non-Target Lesion Complete Response |
| DCM | 112046 | Non-Target Lesion Incomplete Response or Stable Disease |
| DCM | 112047 | Non-Target Lesion Progressive Disease |

CID 6145 Baseline Category

Note

From RECIST

Type: Extensible
Version: 20030108

Table CID 6145. Baseline Category

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------|
| DCM | 112074 | Target Lesion at Baseline |
| DCM | 112075 | Non-Target Lesion at Baseline |
| DCM | 112076 | Non-Lesion at Baseline |

CID 6146 Time Point Types

Type: Extensible
Version: 20141110

Table CID 6146. Time Point Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|-----------------------------|---------------|
| UMLS | C1442488 | Baseline |
| UMLS | C3539075 | Pretreatment |
| DCM | 126074 126074 | Posttreatment |
| DCM | 126075 126075 | Eligibility |
| UMLS | C1699701 | Unscheduled |
| UMLS | C1708760 | Nadir |

Note

1. (C1442488, UMLS, "Baseline") is (C25213, NCIt, "Baseline"). The undefined (121079, DCM, "Baseline") that is used in CID 7003 Diagnostic Imaging Report Purposes of Reference is not used in this context.
2. (C3539075, UMLS, "Pretreatment") is (C103341, NCIt, "Pretreatment").
3. (C1708760, UMLS, "Nadir") is (C43517, NCIt, "Nadir"), and is a synonym for "lowest", though "nadir" is more commonly used in the context of therapeutic response criteria.

CID 6147 Response Criteria

Type: Extensible
Version: 20141110

Table CID 6147. Response Criteria

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 112029 | WHO |
| DCM | 126080 | RECIST 1.0 |
| DCM | 126081 | RECIST 1.1 |
| NCIt | C114879 | RANO |

CID 6151 Background Echotexture**Note**

From BI-RADS®

Type: Extensible

Version: 20050822

Table CID 6151. Background Echotexture

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 111351 | Homogeneous fat echotexture |
| DCM | 111352 | Homogeneous fibroglandular echotexture |
| DCM | 111353 | Heterogeneous echotexture |

CID 6152 Orientation

Note

From BI-RADS®

Type: Extensible
Version: 20050822

Table CID 6152. Orientation

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 111355 | Parallel |
| DCM | 111356 | Not parallel |

CID 6153 Lesion Boundary

Note

From BI-RADS®

Type: Extensible
Version: 20050822

Table CID 6153. Lesion Boundary

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------|
| DCM | 111358 | Abrupt interface |
| DCM | 111359 | Echogenic halo |

CID 6154 Echo Pattern

Note

From BI-RADS®

Type: Extensible
Version: 20050822

Table CID 6154. Echo Pattern

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 111361 | Anechoic |
| DCM | 111362 | Hyperechoic |
| DCM | 111363 | Complex |
| DCM | 111364 | Hypoechoic |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 111365 | Isoechoic |

CID 6155 Posterior Acoustic Features

Note

From BI-RADS®

Type: Extensible
Version: 20060622

Table CID 6155. Posterior Acoustic Features

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 111367 | No posterior acoustic features |
| DCM | 111368 | Posterior enhancement |
| DCM | 111369 | Posterior shadowing |
| DCM | 111370 | Combined posterior enhancement and shadowing |

CID 6157 Vascularity

Note

From BI-RADS®

Type: Extensible
Version: 20050822

Table CID 6157. Vascularity

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 111373 | Vascularity not present |
| DCM | 111374 | Vascularity not assessed |
| DCM | 111375 | Vascularity present in lesion |
| DCM | 111376 | Vascularity present immediately adjacent to lesion |
| DCM | 111377 | Diffusely increased vascularity in surrounding tissue |

CID 6158 Correlation to Other Findings

Note

From BI-RADS®

Type: Extensible
Version: 20050822

Table CID 6158. Correlation to Other Findings

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------------|
| DCM | 111381 | Correlates to physical exam findings |
| DCM | 111382 | Correlates to mammography findings |
| DCM | 111383 | Correlates to MRI findings |
| DCM | 111384 | Correlates to ultrasound findings |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 111385 | Correlates to other imaging findings |
| DCM | 111386 | No correlation to other imaging findings |
| DCM | 111387 | No correlation to clinical findings |

CID 6159 Malignancy Type

Note

From BI-RADS®

Type: Extensible
Version: 20050822

Table CID 6159. Malignancy Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| DCM | 111389 | Invasive breast carcinoma | | |
| SRT | M-85002 | Intraductal carcinoma, non-infiltrating | 86616005 | C0007124 |
| DCM | 111390 | Other malignancy type | | |

CID 6160 Breast Primary Tumor Assessment From AJCC

Type: Extensible
Version: 20050822

Table CID 6160. Breast Primary Tumor Assessment From AJCC

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-003B8 | TX: Primary tumor cannot be assessed (breast) | 373173008 | C1276754 |
| SRT | R-003B9 | T0: No evidence of primary tumor (breast) | 373174002 | C1276755 |
| SRT | R-003BB | Tis: Carcinoma in situ (breast) | 373175001 | C1276756 |
| SRT | R-003BC | Tis: Ductal carcinoma in situ (breast) | 373176000 | C1276757 |
| SRT | R-003BD | Tis: Lobular carcinoma in situ (breast) | 373177009 | C1276758 |
| SRT | R-003BE | Tis: Paget's disease of the nipple with no tumor | 373178004 | C1269975 |
| SRT | R-003BA | T1: Tumor 2 cm or less in greatest dimension (breast) | 373172003 | C1272784 |
| SRT | R-003BF | T1mic: Microinvasion 0.1 cm or less in greatest dimension... | 373179007 | C1269976 |
| SRT | R-003C0 | T1a: Tumor more than 0.1 cm but not more than 0.5 cm... | 373180005 | C1269977 |
| SRT | R-003C1 | T1b: Tumor more than 0.5 cm but not more than 1 cm... | 373204007 | C1269981 |
| SRT | R-003C2 | T1c: Tumor more than 1 cm but not more than 2 cm... | 373183007 | C1272785 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-003C3 | T2: Tumor more than 2 cm but not more than 5 cm... | 373182002 | C1269978 |
| SRT | R-003C4 | T3: Tumor more than 5 cm in greatest dimension (breast) | 373184001 | C1269979 |
| SRT | R-003C5 | T4: Tumor of any size with direct extension to chest wall... | 373185000 | C1276759 |
| SRT | R-003C6 | T4a: Tumor of any size with extension to chest wall, not incl... | 373186004 | C1276760 |
| SRT | R-003C7 | T4b: Tumor of any size with edema (including peau d'orange) ... | 373187008 | C1276761 |
| SRT | R-003C8 | T4c: Tumor of any size with direct extension to chest wall... | 373189006 | C1268960 |
| SRT | R-003C9 | T4: Inflammatory carcinoma (breast) | 373190002 | C1276762 |

CID 6161 Clinical Regional Lymph Node Assessment for Breast

Type: Extensible
Version: 20050822

Table CID 6161. Clinical Regional Lymph Node Assessment for Breast

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-003CA | NX: Regional lymph nodes cannot be assessed... | 373150000 | C1276765 |
| SRT | R-003CB | N0: No regional lymph node metastasis histologically... | 373151001 | C1272783 |
| SRT | R-003D0 | N1: Metastasis in 1 to 3 axillary lymph nodes... | 373156006 | C1276766 |
| SRT | R-003D6 | N2: Metastasis in 4 to 9 axillary lymph nodes... | 373162001 | C1276749 |
| SRT | R-003D7 | N2a: Metastasis in 4 to 9 axillary lymph nodes (...2.0 mm)... | 373163006 | C1276750 |
| SRT | R-003D8 | N2b: Metastasis in clinically apparent internal... nodes... | 373164000 | C1276751 |
| SRT | G-F749 | N3: Metastasis to ipsilateral internal mammary lymph node(s) | 369991007 | C1276711 |
| SRT | R-003D9 | N3a: Metastasis in 10 or more axillary lymph nodes... | 373165004 | C1276752 |
| SRT | R-003DA | N3b: Metastasis in clinically apparent ipsilateral internal... | 373167007 | C1274009 |
| SRT | R-003DB | N3c: Metastasis in ipsilateral supraclavicular lymph nodes... | 373166003 | C1276753 |

CID 6162 Assessment of Metastasis for Breast

Type: Extensible
Version: 20050822

Table CID 6162. Assessment of Metastasis for Breast

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-003DC | MX: Distant metastasis cannot be assessed (breast) | 373170006 | C1268958 |
| SRT | R-003DD | M0: No distant metastasis (breast) | 373169005 | C1268957 |
| SRT | R-003DE | M1: Distant metastasis (breast) | 373171005 | C1268959 |

CID 6163 Menstrual Cycle Phase

Note

From BI-RADS®

Type: Extensible
Version: 20050822

Table CID 6163. Menstrual Cycle Phase

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| DCM | 111392 | 1st week | | |
| DCM | 111393 | 2nd week | | |
| DCM | 111394 | 3rd week | | |
| SRT | F-840B3 | Menstruation present | 289894009 | C0567306 |

CID 6164 Time Intervals

Type: Extensible
Version: 20050822

Table CID 6164. Time Intervals

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------|
| DCM | 111396 | < 3 months ago |
| DCM | 111397 | 4 months to 1 year ago |
| DCM | 111398 | > 1 year ago |
| DCM | 111399 | Not sure |

CID 6165 Breast Linear Measurements

Type: Extensible
Version: 20050822

Table CID 6165. Breast Linear Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------------------|
| <i>Include CID 7470 "Linear Measurements"</i> | | |
| DCM | 121242 | Distance from nipple |
| DCM | 121243 | Distance from skin |
| DCM | 121244 | Distance from chest wall |

CID 6166 CAD Geometry Secondary Graphical Representation

Type: Extensible
Version: 20060822

Table CID 6166. CAD Geometry Secondary Graphical Representation

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| DCM | 113661 | Outline of lobulations | | |
| DCM | 113662 | Inner limits of fuzzy margin | | |
| DCM | 113663 | Outer limits of fuzzy margin | | |
| DCM | 113664 | Outline of spiculations | | |
| DCM | 113665 | Linear spiculation | | |
| DCM | 113666 | Pixelated spiculations | | |
| SRT | G-A185 | Long axis | 103339001 | C0522487 |
| SRT | G-A186 | Short axis | 103340004 | C0522488 |
| DCM | 113669 | Orthogonal location arc | | |
| DCM | 113670 | Orthogonal location arc inner margin | | |
| DCM | 113671 | Orthogonal location arc outer margin | | |

CID 6200 Colon Overall Assessment

Type: Extensible
Version: 20090402

Table CID 6200. Colon Overall Assessment

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 112240 | C0 - Inadequate Study/Awaiting Prior Comparisons |
| DCM | 112241 | C1 - Normal Colon or Benign Lesion |
| DCM | 112242 | C2 - Intermediate Polyp or Indeterminate Finding |
| DCM | 112243 | C3 - Polyp, Possibly Advanced Adenoma |
| DCM | 112244 | C4 - Colonic Mass, Likely Malignant |

CID 6201 Colon Finding or Feature

Type: Extensible
Version: 20090402

Table CID 6201. Colon Finding or Feature

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| DCM | 111101 | Image quality | | |
| DCM | 111099 | Selected region | | |
| SRT | D5-41170 | Polyp of colon | 68496003 | C0009376 |
| SRT | D5-F131F | Tumor of colon | 126838000 | C0009375 |
| SRT | F-54005 | Rectal mass | 248523006 | C0240873 |
| SRT | M-32700 | Diverticulum | 31113003 | C0012817 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | T-59345 | Colonic haustra | 6533001 | C0227361 |
| SRT | T-59666 | Feces | 39477002 | C0015733 |
| SRT | M-88500 | Lipoma | 46720004 | C0023798 |
| SRT | T-50153 | Intraluminal fluid | 442170005 | C2711278 |
| SRT | F-61D54 | Contrast media | 385420005 | C0009924 |
| SRT | T-58650 | Ileocecal valve | 23153004 | C0020880 |
| SRT | M-32704 | Inverted diverticulum | 441901008 | C2711356 |
| SRT | M-18000 | Operative Site | 43526002 | C0332850 |
| DCM | 111102 | Non-lesion | | |
| DCM | 112238 | Anatomic non-colon | | |

CID 6202 Colon Finding or Feature Modifier

Type: Extensible
Version: 20090402

Table CID 6202. Colon Finding or Feature Modifier

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 6203 "Colon Non-lesion Object Type" | | |
| Include CID 6204 "Anatomic Non-colon Findings" | | |

CID 6203 Colon Non-lesion Object Type

Type: Extensible
Version: 20160314

Table CID 6203. Colon Non-lesion Object Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------|----------------------|------------------------|
| SRT | A-32110 | Bullet | 86122002 | C0336699 |
| SRT | A-13600 | Staple | 56353002 | C0524724 |
| SRT | A-13500 | Suture | 27065002 | C0038969 |
| SRT | M-78060 | Scar tissue | 12402003 | C2004491 |
| SRT | A-26800 | Catheter | 19923001 | C0085590 |
| DCM | 112173 | Chest tube | | |
| SRT | A-14611 | Vena cava filter | 257409000 | C0080306 |
| SRT | A-04000 | Prosthesis | 53350007 | C0175649 |
| SRT | A-26434 | Jejunostomy tube | 126065006 | C0879216 |
| DCM | 112175 | Kidney stent | | |
| SRT | A-11C08 | Ureteral stent | 286558002 | C0183518 |
| DCM | 112176 | Pancreatic stent | | |
| SRT | A-61000 | Jewelry | 80919006 | C0336902 |
| DCM | 112178 | Coin | | |
| SRT | A-12024 | Pin | 77444004 | C0175718 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | A-30360 | Needle | 79068005 | C0027551 |
| DCM | 112171 | Fiducial mark | | |
| SRT | A-120DD | Colostomy set | 341036005 | C0180028 |
| SRT | A-10DBC | Colostomy bag | 339648008 | C0180026 |
| SRT | A-1009E | Ileostomy set | 342706005 | C0181271 |
| SRT | A-10029 | Ileostomy bag | 417136005 | C1563151 |
| SRT | A-10703 | Urostomy set | 344575009 | C0467978 |
| SRT | A-105E3 | Urostomy bag | 344088002 | C0467658 |
| SRT | A-26440 | Rectal tube | 67966000 | C0175752 |
| SRT | A-26864 | Urethral catheter | 34759008 | C0179800 |

Note

The use of (111176, DCM, "Unspecified") was previously included in this context group but was removed since it does not make sense to have Colon CAD composite feature modifiers (TID 4125 "Colon CAD Composite Feature") and single image finding modifiers (TID 4127 "Colon CAD Single Image Finding") of an unknown type.

CID 6204 Anatomic Non-colon Findings

Type: Extensible
Version: 20090402

Table CID 6204. Anatomic Non-colon Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------|----------------------|------------------------|
| SRT | T-62000 | Liver | 10200004 | C0023884 |
| SRT | T-C3000 | Spleen | 78961009 | C0037993 |
| SRT | T-71000 | Kidney | 64033007 | C0022646 |
| SRT | T-B3000 | Adrenal gland | 23451007 | C0001625 |
| SRT | T-42000 | Aorta | 15825003 | C0003483 |
| SRT | T-48710 | Inferior vena cava | 64131007 | C0042458 |
| SRT | T-28000 | Lung | 39607008 | C0024109 |
| SRT | T-D016E | Bone | 272673000 | C0262950 |
| SRT | T-94000 | Testis | 40689003 | C0039597 |
| SRT | T-83000 | Uterus | 35039007 | C0042149 |
| SRT | T-87000 | Ovary | 15497006 | C0029939 |
| SRT | T-83200 | Cervix | 71252005 | C0007874 |
| SRT | T-92000 | Prostate | 41216001 | C0033572 |
| SRT | T-93000 | Seminal Vesicle | 64739004 | C0036628 |
| SRT | T-59600 | Rectum | 34402009 | C0034896 |
| SRT | T-74000 | Bladder | 89837001 | C0005682 |
| SRT | T-13001 | Muscle | 71616004 | C0026845 |
| SRT | T-40000 | Blood Vessel | 59820001 | C0005847 |
| SRT | T-59200 | Appendix | 66754008 | C0003617 |
| SRT | T-D0874 | Appendiceal stump | 441850003 | C2711602 |

CID 6205 Clockface Location for Colon

Type: Extensible
Version: 20090402

Table CID 6205. Clockface Location for Colon

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------|----------------------|------------------------|
| SRT | F-01781 | 1 o'clock position | 129772004 | C1268696 |
| SRT | F-01782 | 2 o'clock position | 129773009 | C1268697 |
| SRT | F-01783 | 3 o'clock position | 129774003 | C1268698 |
| SRT | F-01784 | 4 o'clock position | 129775002 | C1268699 |
| SRT | F-01785 | 5 o'clock position | 129776001 | C1268700 |
| SRT | F-01786 | 6 o'clock position | 129777005 | C1268701 |
| SRT | F-01787 | 7 o'clock position | 129778000 | C1268702 |
| SRT | F-01788 | 8 o'clock position | 129779008 | C1268703 |
| SRT | F-01789 | 9 o'clock position | 129780006 | C1268704 |
| SRT | F-0178A | 10 o'clock position | 129781005 | C1268705 |
| SRT | F-0178B | 11 o'clock position | 129782003 | C1268706 |
| SRT | F-0178C | 12 o'clock position | 129783008 | C1268707 |

CID 6206 Recumbent Patient Orientation for Colon

Type: Extensible
Version: 20090402

Table CID 6206. Recumbent Patient Orientation for Colon

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | F-10310 | Prone | 1240000 | C0033422 |
| SRT | F-10340 | Supine | 40199007 | C0038846 |
| SRT | F-10317 | right lateral decubitus | 102535000 | C0559228 |
| SRT | F-10319 | left lateral decubitus | 102536004 | C0559227 |

CID 6207 Colon Quantitative Temporal Difference Type

Type: Extensible
Version: 20090717

Table CID 6207. Colon Quantitative Temporal Difference Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | F-05173 | Difference in size | 442714003 | C2711955 |
| SRT | F-05179 | Difference in location | 442726008 | C2711109 |
| SRT | F-0516E | Difference in attenuation | 442707000 | C2711926 |

CID 6208 Colon Types of Quality Control Standard

Type: Extensible

Version: 20090402

Table CID 6208. Colon Types of Quality Control Standard

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 112036 | ACR Position Statement |
| DCM | 111240 | Institutionally defined quality control standard |
| DCM | 112248 | ACR Guideline, Performance of Adult CT Colonography |
| DCM | 112249 | ACR Standard, CT medical physics performance monitoring |

CID 6209 Colon Morphology Descriptor

Type: Extensible

Version: 20090402

Table CID 6209. Colon Morphology Descriptor

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | G-A530 | Sessile | 5712003 | C0205348 |
| SRT | G-A477 | Pedunculated | 25126001 | C0205320 |
| SRT | G-A485 | Flat | 6041008 | C0205324 |
| SRT | R-404F0 | Circumferential | 255593009 | C0205113 |
| SRT | M-38000 | Ulcer | 56208002 | C0041582 |

CID 6210 Location in Intestinal Tract

Type: Extensible

Version: 20090402

Table CID 6210. Location in Intestinal Tract

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | T-59600 | Rectum | 34402009 | C0034896 |
| SRT | T-59470 | Sigmoid colon | 60184004 | C0227391 |
| SRT | T-59460 | Descending colon | 32622004 | C0227389 |
| SRT | T-59440 | Transverse colon | 485005 | C0227386 |
| SRT | T-59420 | Ascending colon | 9040008 | C0227375 |
| SRT | T-59100 | Cecum | 32713005 | C0007531 |
| SRT | T-59442 | Splenic flexure of colon | 72592005 | C0227387 |
| SRT | T-59438 | Hepatic flexure of colon | 48338005 | C0227385 |

CID 6211 Colon CAD Material Description

Type: Extensible

Version: 20090402

Table CID 6211. Colon CAD Material Description

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| DCM | 112144 | Soft tissue | | |
| SRT | T-D008A | Fat | 256674009 | C0015677 |
| SRT | A-80230 | Air | 15158005 | C0001861 |
| SRT | T-11034 | Bone matrix | 45001002 | C0005962 |

CID 6212 Calculated Value for Colon Findings

Type: Extensible
Version: 20090402

Table CID 6212. Calculated Value for Colon Findings

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | R-0045B | Polyp stalk length | 395511002 | C1273121 |
| SRT | R-00286 | Polyp size, largest dimension | 373197004 | C1272618 |
| DCM | 112232 | Polyp stalk width | | |
| DCM | 112233 | Distance from anus | | |

CID 6300 Prostate Sector Anatomy

Note

In future extensions, Prostate Sector Anatomy terms that are not derived from PI-RADS v2 should be added to this context group.

Type: Extensible
Version: 20161106

Table CID 6300. Prostate Sector Anatomy

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 6301 "Prostate Sector Anatomy from PI-RADS v2"</i> | | |
| <i>Include CID 6302 "Prostate Sector Anatomy from European Consensus 16 Sector (Minimal) Model"</i> | | |
| <i>Include CID 6303 "Prostate Sector Anatomy from European Consensus 27 Sector (Optimal) Model"</i> | | |

CID 6301 Prostate Sector Anatomy from PI-RADS v2

Note

From [PI-RADS v2].

Type: Extensible
Version: 20161106

Table CID 6301. Prostate Sector Anatomy from PI-RADS v2

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | FMA ID | PI-RADS v2 Abbreviation | NCI Thesaurus |
|---------------------------------|-------------------|--|-----------------------------|-------------------------------|---------------|--------------------------------|----------------------|
| SRT | R-FFFFC | Central zone of left half prostate | 716901006 | C4273550 | 302475 | Base L CZ | C128587 |
| SRT | R-FFFD0 | Central zone of right half prostate | 716900007 | C4274157 | 302473 | Base R CZ | C128593 |
| SRT | R0-00025 | Left anterior apical peripheral zone of prostate | 716937001 | C4274170 | 328760 | Apex L PZa | C128575 |
| SRT | R-FFFE5 | Left anterior apical transition zone of prostate | 716931000 | C4274174 | 328795 | Apex L TZa | C128578 |
| SRT | R0-00001 | Left anterior basal peripheral zone of prostate | 716905002 | C4273857 | 328753 | Base L PZa | C128588 |
| SRT | R-FFFD6 | Left anterior basal transition zone of prostate | 716897000 | C4274207 | 328785 | Base L TZa | C128589 |
| SRT | R-FFFB0 | Left anterior middle peripheral zone of prostate | 716920008 | C4274185 | 328768 | Mid L PZa | C128600 |
| SRT | R0-00013 | Left anterior middle transition zone of prostate | 716914007 | C4274190 | 328784 | Mid L TZa | C128603 |
| SRT | R-FFFDf | Left apical anterior fibromuscular stroma of prostate | 716927006 | C4274178 | 328772 | Apex L AS | C128574 |
| SRT | R-FFFDc | Left basal anterior fibromuscular stroma of prostate | 716893001 | C4274482 | 328758 | Base L AS | C128586 |
| SRT | R0-00027 | Left middle anterior fibromuscular stroma of prostate | 716910003 | C4274479 | 328781 | Mid L AS | C128599 |
| SRT | R0-00014 | Left posterior apical transition zone of prostate | 716933002 | C4274173 | 328775 | Apex L TZp | C128579 |
| SRT | R-FFFB7 | Left posterior basal transition zone of prostate | 716899002 | C4274204 | 328789 | Base L TZp | C128590 |
| SRT | R-FFFAB | Left posterior middle transition zone of prostate | 716916009 | C4274189 | 328786 | Mid L TZp | C128604 |
| SRT | R-FFFDd | Left posterolateral apical peripheral zone of prostate | 716939003 | C4274168 | 328752 | Apex L PZpl | C128576 |
| SRT | R-FFFC2 | Left posterolateral basal peripheral zone of prostate | 716907005 | C4274197 | 328759 | Base L PZpl | C128591 |
| SRT | R-FFFE9 | Left posterolateral middle peripheral zone of prostate | 716922000 | C4274180 | 328791 | Mid L PZpl | C128601 |
| SRT | R0-0000B | Left posteromedial apical peripheral zone of prostate | 716941002 | C4274166 | 328792 | Apex L PZpm | C128577 |
| SRT | R-FFFB5 | Left posteromedial middle peripheral zone of prostate | 716924004 | C4274183 | 328777 | Mid L PZpm | C128602 |
| SRT | T-93020 | Left seminal vesicle | 42320003 | C0227980 | 19388 | L SV | C128598 |
| SRT | R-FFFD9 | Male external urethral sphincter | 717027004 | C0815353 | 19733 | US | C128612 |
| SRT | R0-00003 | Right anterior apical peripheral zone of prostate | 716936005 | C4274125 | 328779 | Apex R PZa | C128581 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | FMA ID | PI-RADS v2 Abbreviation | NCI Thesaurus |
|--------------------------|------------|---|----------------------|------------------------|--------|-------------------------|---------------|
| SRT | R0-00006 | Right anterior apical transition zone of prostate | 716930004 | C4274131 | 328761 | Apex R TZa | C128584 |
| SRT | R-FFFE2 | Right anterior basal peripheral zone of prostate | 716904003 | C4274200 | 328798 | Base R PZa | C128594 |
| SRT | R0-00000 | Right anterior basal transition zone of prostate | 716896009 | C4273547 | 328793 | Base R TZa | C128596 |
| SRT | R-FFFC0 | Right anterior middle peripheral zone of prostate | 716919002 | C4274141 | 328796 | Mid R PZa | C128606 |
| SRT | R-FFFF4 | Right anterior middle transition zone of prostate | 716913001 | C4274147 | 328800 | Mid R TZa | C128609 |
| SRT | R-FFFFD | Right apical anterior fibromuscular stroma of prostate | 716926002 | C4273870 | 328801 | Apex R AS | C128580 |
| SRT | R-FFFF2 | Right basal anterior fibromuscular stroma of prostate | 716892006 | C4273849 | 328778 | Base R AS | C128592 |
| SRT | R0-00004 | Right middle anterior fibromuscular stroma of prostate | 716909008 | C4273544 | 328783 | Mid R AS | C128605 |
| SRT | R-FFFF3 | Right posterior apical transition zone of prostate | 716932007 | C4274099 | 328763 | Apex R TZp | C128585 |
| SRT | R-FFFB1 | Right posterior basal transition zone of prostate | 716898005 | C4274205 | 328799 | Base R TZp | C128597 |
| SRT | R-FFFC9 | Right posterior middle transition zone of prostate | 716915008 | C4273542 | 328787 | Mid R TZp | C128610 |
| SRT | R-FFFC0 | Right posterolateral apical peripheral zone of prostate | 716938006 | C4273861 | 328782 | Apex R PZpl | C128582 |
| SRT | R0-0001E | Right posterolateral basal peripheral zone of prostate | 716906001 | C4274198 | 328797 | Base R PZpl | C128595 |
| SRT | R0-0000C | Right posterolateral middle peripheral zone of prostate | 716921007 | C4274184 | 328771 | Mid R PZpl | C128607 |
| SRT | R-FFFEA | Right posteromedial apical peripheral zone of prostate | 716940001 | C4274167 | 328764 | Apex R PZpm | C128583 |
| SRT | R-FFFD4 | Right posteromedial middle peripheral zone of prostate | 716923005 | C4274181 | 328766 | Mid R PZpm | C128608 |
| SRT | T-93010 | Right seminal vesicle | 74308000 | C0227979 | 19387 | R SV | C128611 |

CID 6302 Prostate Sector Anatomy from European Consensus 16 Sector (Minimal) Model

Note

From [Prostate Eu Consensus].

Type: Extensible
Version: 20161106

Table CID 6302. Prostate Sector Anatomy from European Consensus 16 Sector (Minimal) Model

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | FMA ID | 16 Sector Code |
|---------------------------------|-------------------|--|-----------------------------|-------------------------------|---------------|-----------------------|
| SRT | R-FFFFC | Central zone of left half prostate | 716901006 | C4273550 | 302475 | 6p |
| SRT | R-FFFD0 | Central zone of right half prostate | 716900007 | C4274157 | 302473 | 1p |
| SRT | R-FFFD3 | Left apical peripheral zone of prostate | 716935009 | C4274171 | 328790 | 10p |
| SRT | R-FFFA9 | Left apical transition zone of prostate | 716929009 | C4274176 | 328769 | 6a |
| SRT | R0-00020 | Left basal part transition zone of prostate | 716895008 | C4274160 | 328755 | 4a |
| SRT | R-FFFC4 | Left basal peripheral zone of prostate | 716903009 | C4274120 | 328765 | 7p |
| SRT | R-FFFE6 | Left lateral middle peripheral zone of prostate | 716918005 | C4274142 | 328767 | 9p |
| SRT | R-FFFD5 | Left middle transition zone of prostate | 716912006 | C4274192 | 328762 | 5a |
| SRT | R-FFFB5 | Left posteromedial middle peripheral zone of prostate | 716924004 | C4274183 | 328777 | 8p |
| SRT | T-93020 | Left seminal vesicle | 42320003 | C0227980 | 19388 | L SV |
| SRT | R-FFFD9 | Male external urethral sphincter | 717027004 | C0815353 | 19733 | US |
| SRT | R-FFFB3 | Right apical peripheral zone of prostate | 716934008 | C4274128 | 328794 | 5p |
| SRT | R-FFFC1 | Right apical transition zone of prostate | 716928001 | C4273855 | 328773 | 3a |
| SRT | R0-00018 | Right basal peripheral zone of prostate | 716902004 | C4274155 | 328802 | 2p |
| SRT | R-FFFB6 | Right basal transition zone of prostate | 716894007 | C4274164 | 328780 | 1a |
| SRT | R0-0000F | Right lateral middle peripheral zone of prostate | 716917000 | C4274143 | 328803 | 4p |
| SRT | R-FFFB6 | Right middle transition zone of prostate | 716911004 | C4273545 | 328757 | 2a |
| SRT | R-FFFD4 | Right posteromedial middle peripheral zone of prostate | 716923005 | C4274181 | 328766 | 3p |
| SRT | T-93010 | Right seminal vesicle | 74308000 | C0227979 | 19387 | R SV |

CID 6303 Prostate Sector Anatomy from European Consensus 27 Sector (Optimal) Model

Note

From [Prostate Eu Consensus].

Type: Extensible
Version: 20161106

Table CID 6303. Prostate Sector Anatomy from European Consensus 27 Sector (Optimal) Model

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | FMA ID | 27 Sector Code |
|--------------------------|------------|--|----------------------|------------------------|--------|----------------|
| SRT | R0-0001B | Apical anterior fibromuscular stroma of prostate | 716925003 | C4274179 | 302546 | 15as |
| SRT | R0-00017 | Basal anterior fibromuscular stroma of prostate | 716891004 | C4273850 | 302539 | 13as |
| SRT | R-FFFFC | Central zone of left half prostate | 716901006 | C4273550 | 302475 | 7p |
| SRT | R-FFFD0 | Central zone of right half prostate | 716900007 | C4274157 | 302473 | 1p |
| SRT | R0-00025 | Left anterior apical peripheral zone of prostate | 716937001 | C4274170 | 328760 | 12a |
| SRT | R0-00001 | Left anterior basal peripheral zone of prostate | 716905002 | C4273857 | 328753 | 8a |
| SRT | R-FFFB0 | Left anterior middle peripheral zone of prostate | 716920008 | C4274185 | 328768 | 10a |
| SRT | R-FFFA9 | Left apical transition zone of prostate | 716929009 | C4274176 | 328769 | 11a |
| SRT | R0-00020 | Left basal part transition zone of prostate | 716895008 | C4274160 | 328755 | 7a |
| SRT | R-FFFD5 | Left middle transition zone of prostate | 716912006 | C4274192 | 328762 | 9a |
| SRT | R-FFFD0 | Left posterolateral apical peripheral zone of prostate | 716939003 | C4274168 | 328752 | 12p |
| SRT | R-FFFC2 | Left posterolateral basal peripheral zone of prostate | 716907005 | C4274197 | 328759 | 8p |
| SRT | R-FFFE9 | Left posterolateral middle peripheral zone of prostate | 716922000 | C4274180 | 328791 | 10p |
| SRT | R0-0000B | Left posteromedial apical peripheral zone of prostate | 716941002 | C4274166 | 328792 | 11p |
| SRT | R-FFFB5 | Left posteromedial middle peripheral zone of prostate | 716924004 | C4274183 | 328777 | 9p |
| SRT | T-93020 | Left seminal vesicle | 42320003 | C0227980 | 19388 | L SV |
| SRT | R-FFFD9 | Male external urethral sphincter | 717027004 | C0815353 | 19733 | US |
| SRT | R-FFFE0 | Middle anterior fibromuscular stroma of prostate | 716908000 | C4274194 | 302542 | 14as |
| SRT | R0-00003 | Right anterior apical peripheral zone of prostate | 716936005 | C4274125 | 328779 | 6a |
| SRT | R-FFFE2 | Right anterior basal peripheral zone of prostate | 716904003 | C4274200 | 328798 | 2a |
| SRT | R-FFFC0 | Right anterior middle peripheral zone of prostate | 716919002 | C4274141 | 328796 | 4a |
| SRT | R-FFFC1 | Right apical transition zone of prostate | 716928001 | C4273855 | 328773 | 5a |
| SRT | R-FFFB0 | Right basal transition zone of prostate | 716894007 | C4274164 | 328780 | 1a |
| SRT | R-FFFB6 | Right middle transition zone of prostate | 716911004 | C4273545 | 328757 | 3a |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | FMA ID | 27 Sector Code |
|--------------------------|------------|---|----------------------|------------------------|--------|----------------|
| SRT | R-FFFC0 | Right posterolateral apical peripheral zone of prostate | 716938006 | C4273861 | 328782 | 6p |
| SRT | R0-0001E | Right posterolateral basal peripheral zone of prostate | 716906001 | C4274198 | 328797 | 2p |
| SRT | R0-0000C | Right posterolateral middle peripheral zone of prostate | 716921007 | C4274184 | 328771 | 4p |
| SRT | R-FFFEA | Right posteromedial apical peripheral zone of prostate | 716940001 | C4274167 | 328764 | 5p |
| SRT | R-FFFD4 | Right posteromedial middle peripheral zone of prostate | 716923005 | C4274181 | 328766 | 3p |
| SRT | T-93010 | Right seminal vesicle | 74308000 | C0227979 | 19387 | R SV |

CID 7000 Diagnostic Imaging Report Document Titles

Type: Extensible
Version: 20140102

Table CID 7000. Diagnostic Imaging Report Document Titles

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|------------------------|
| LN | 18745-0 | Cardiac Catheterization Report | C0801759 |
| LN | 11540-2 | CT Abdomen Report | C0551722 |
| LN | 11538-6 | CT Chest Report | C0551723 |
| LN | 11539-4 | CT Head Report | C0551724 |
| LN | 18747-6 | CT Report | C0801761 |
| LN | 18748-4 | Diagnostic Imaging Report | C0801762 |
| LN | 11522-0 | Echocardiography Report | C0551715 |
| LN | 18760-9 | Ultrasound Report | C0801774 |
| LN | 11541-0 | MRI Head Report | C0551725 |
| LN | 18755-9 | MRI Report | C0801769 |
| LN | 18756-7 | MRI Spine Report | C0801770 |
| LN | 18757-5 | Nuclear Medicine Report | C0801771 |
| LN | 17787-3 | Nuclear Medicine Thyroid Scan Report | C0800894 |
| LN | 11525-3 | Ultrasound Obstetric and Gyn Report | C0551717 |
| LN | 18758-3 | PET Scan Report | C0801772 |
| LN | 11528-7 | Radiology Report | C0551720 |
| LN | 18750-0 | Cardiac Electrophysiology Report | C0801764 |
| LN | 11524-0 | ECG Report | |
| LN | 18752-6 | Exercise Stress Test Report | C0801766 |
| LN | 18754-2 | Holter Study Report | C0801768 |
| LN | 43468-8 | X-Ray Report | C1714805 |
| LN | 38269-7 | DEXA Skeletal System Study Report | C1526358 |
| DCM | 111400 | Breast Imaging Report | |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--|------------------------|
| LN | 24606-6 | Mammography Screening Report | C0881841 |
| LN | 49512-7 | Fluoroscopy Study Report | C1977263 |
| LN | 47048-4 | Diagnostic Interventional Radiology Report | C1831148 |

CID 7001 Diagnostic Imaging Report Headings

Type: Extensible
Version: 20150324

Table CID 7001. Diagnostic Imaging Report Headings

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID | Equivalent DCMR (DCM) Code |
|--------------------------|------------|---|------------------------|----------------------------|
| LN | 11329-0 | History | C0551569 | 121060 |
| LN | 55115-0 | Request | C2708293 | 121062 |
| LN | 55111-9 | Current Procedure Descriptions | C2708286 | 121064 |
| LN | 55114-3 | Prior Procedure Descriptions | C2708291 | 121066 |
| LN | 18834-2 | Previous Findings | C0801832 | 121068 |
| LN | 59776-5 | Findings | C2926606 | 121070 |
| LN | 19005-8 | Impressions | C0801998 | 121072 |
| LN | 18783-1 | Recommendations | C0801796 | 121074 |
| LN | 55110-1 | Conclusions | C2708285 | 121076 |
| LN | 55107-7 | Addendum | C2708272 | 121078 |
| LN | 18785-6 | Indications for Procedure | C0801797 | 121109 |
| LN | 55108-5 | Patient Presentation | C2708282 | 121110 |
| LN | 55109-3 | Complications | C2708284 | 121113 |
| LN | 55112-7 | Summary | C2708288 | 121111 |
| LN | 55113-5 | Key Images | C2708289 | 121180 |
| LN | 73569-6 | Radiation Exposure and Protection Information | C3654408 | 113923 |
| LN | 55752-0 | Clinical Information | C2708732 | |
| LN | 29549-3 | Medications Administered | C0945765 | |
| LN | 73568-8 | Communication of Critical Results | C3654409 | |

Note

- In previous editions of the Standard, this Context Group included codes of DCMR, using Coding Scheme Designator DCM. The preferable encoding of these concepts is using the LOINC codes, however, the support of equivalent DCMR codes is recommended for backward compatibility.
- In a prior version of this Context Group, the code (18782-3, LN, "Study Observation") was specified for report heading "Findings". This has now been replaced by (59776-5, LN, "Procedure Findings").

CID 7002 Diagnostic Imaging Report Elements

Type: Extensible
Version: 20030327

Table CID 7002. Diagnostic Imaging Report Elements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| LN | 11329-0 | History | | C0551569 |
| LN | 55115-0 | Request | | C2708293 |
| DCM | 121065 | Procedure Description | | |
| DCM | 121069 | Previous Finding | | |
| DCM | 121071 | Finding | | |
| DCM | 121073 | Impression | | |
| DCM | 121075 | Recommendation | | |
| DCM | 121077 | Conclusion | | |
| SRT | DD-60002 | Complication of Procedure | 116224001 | C0742724 |
| DCM | 121110 | Patient Presentation | | |
| DCM | 121111 | Summary | | |

CID 7003 Diagnostic Imaging Report Purposes of Reference

Type: Extensible
Version: 20100604

Table CID 7003. Diagnostic Imaging Report Purposes of Reference

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------|
| DCM | 121079 | Baseline |
| DCM | 121080 | Best illustration of finding |
| DCM | 121112 | Source of Measurement |
| DCM | 121200 | Illustration of ROI |

CID 7004 Waveform Purposes of Reference

Type: Extensible
Version: 20090409

Table CID 7004. Waveform Purposes of Reference

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 121301 | Simultaneous Doppler |
| DCM | 121302 | Simultaneous Hemodynamic |
| DCM | 121303 | Simultaneous ECG |
| DCM | 121304 | Simultaneous Voice Narrative |
| DCM | 121305 | Simultaneous Respiratory Waveform |
| DCM | 121306 | Simultaneous Arterial Pulse Waveform |
| DCM | 121307 | Simultaneous Phonocardiographic Waveform |

CID 7005 Contributing Equipment Purposes of Reference

Type: Extensible
Version: 20130617

Table CID 7005. Contributing Equipment Purposes of Reference

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 109101 | Acquisition Equipment |
| DCM | 109102 | Processing Equipment |
| DCM | 109103 | Modifying Equipment |
| DCM | 109104 | De-identifying Equipment |
| DCM | 109105 | Frame Extracting Equipment |
| DCM | 109106 | Enhanced Multi-frame Conversion Equipment |
| DCM | MEDIM | Portable Media Importer Equipment |
| DCM | FILMD | Film Digitizer |
| DCM | DOCD | Document Digitizer Equipment |
| DCM | VIDD | Video Tape Digitizer Equipment |

CID 7006 SR Document Purposes of Reference**Type:** Extensible**Version:** 20061023**Table CID 7006. SR Document Purposes of Reference**

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------------|
| DCM | 121331 | Equivalent CDA Document |
| DCM | 121332 | Complete Rendering for Presentation |
| DCM | 121333 | Partial Rendering for Presentation |
| DCM | 121334 | Extended Rendering for Presentation |
| DCM | 121335 | Source Document |

CID 7007 Signature Purpose

Context Group ID 7007 comprises the signature purposes codes of ASTM E 2084-00. The Coding Scheme Designator (0008,0102) shall be "ASTM-sigpurpose". The ASTM document defines the signature purpose codes as OIDs. For the purposes of this Coding Scheme only the leaf digit is used as the Code Value (0008,0100).

Note

ASTM E 1762 provides the full definitions for the signature purpose OIDs defined by E 2084. The recommended Code Meanings (0008,0104) are the titles of the definitions for the leaves of the OIDs. For example, the OID 1.2.840.10065.1.12.1 corresponds to the leaf "id-purpose-author", whose meaning could be encoded as "Author Signature" and whose code value is 1.

CID 7008 Media Import

This Context Group specifies items that may be conveyed in the Billing and Materials Management Module (see PS3.3).

Type: Extensible**Version:** 20061024**Table CID 7008. Media Import**

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------|
| DCM | 110020 | Sheet Film Digitized |
| DCM | 110021 | Cine Film Digitized |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------|
| DCM | 110022 | Video Tape Digitized |
| DCM | 110023 | Paper Digitized |
| DCM | 110024 | CD Imported |
| DCM | 110025 | DVD Imported |
| DCM | 110026 | MOD Imported |
| DCM | 110027 | Studies Imported |
| DCM | 110028 | Instances Imported |

CID 7009 Purpose of Reference to Predecessor Report

Type: Extensible
Version: 20090826

Table CID 7009. Purpose of Reference to Predecessor Report

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------|
| DCM | 121360 | Replaced report |
| DCM | 121361 | Addended report |
| DCM | 121362 | Preliminary report |
| DCM | 121363 | Partial report |
| DCM | 122073 | Current procedure evidence |

Note

The concepts of replaced and addended correspond to REPLACEMENT and ADDENDUM in HL7 V2.6 Chapter 9, with the exception that an EDITED value is not supported due to incompatibility with HL7 CDA.

CID 7010 Key Object Selection Document Title

Type: Extensible
Version: 20160908

Table CID 7010. Key Object Selection Document Title

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------|
| DCM | 113000 | Of Interest |
| DCM | 113001 | Rejected for Quality Reasons |
| DCM | 113002 | For Referring Provider |
| DCM | 113003 | For Surgery |
| DCM | 113004 | For Teaching |
| DCM | 113005 | For Conference |
| DCM | 113006 | For Therapy |
| DCM | 113007 | For Patient |
| DCM | 113008 | For Peer Review |
| DCM | 113009 | For Research |
| DCM | 113010 | Quality Issue |
| DCM | 113013 | Best In Set |
| DCM | 113018 | For Printing |

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------------------------------|
| DCM | 113020 | For Report Attachment |
| DCM | 113021 | For Litigation |
| DCM | 113030 | Manifest |
| DCM | 113031 | Signed Manifest |
| DCM | 113032 | Complete Study Content |
| DCM | 113033 | Signed Complete Study Content |
| DCM | 113034 | Complete Acquisition Content |
| DCM | 113035 | Signed Complete Acquisition Content |
| DCM | 113036 | Group of Frames for Display |
| DCM | 113037 | Rejected for Patient Safety Reasons |
| DCM | 113038 | Incorrect Modality Worklist Entry |
| DCM | 113039 | Data Retention Policy Expired |
| DCM | 113022 | Collection of Presentation States |
| DCM | 128181 | Diagnostic Source Images |
| DCM | 128182 | Segmentation Result |
| DCM | 128183 | Registration Result |
| DCM | 128195 | For Diagnosis |
| DCM | 128218 | Diagnosis Input Used |
| DCM | 128196 | For Segmentation |
| DCM | 128219 | Contouring Input Used |
| DCM | 128199 | For Plan Comparison |
| DCM | 128220 | Plan Comparison Input Used |
| DCM | 128203 | For Tumor Board |
| DCM | 128221 | Tumor Board Input Used |
| DCM | 128208 | For Tumor Registry |
| DCM | 128222 | Tumor Registry Input Used |
| DCM | 128207 | For Clinical Trial Submission |
| DCM | 128223 | Clinical Trial Submission Input Used |
| <i>Include CID 7023 "RT Process Output"</i> | | |
| <i>Include CID 7024 "RT Process Input"</i> | | |
| <i>Include CID 7025 "RT Process Input Used"</i> | | |

CID 7011 Rejected for Quality Reasons

Type: Extensible
Version: 20020904

Table CID 7011. Rejected for Quality Reasons

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------|
| DCM | 111207 | Image artifact(s) |
| DCM | 111208 | Grid artifact(s) |
| DCM | 111209 | Positioning |
| DCM | 111210 | Motion blur |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 111211 | Under exposed |
| DCM | 111212 | Over exposed |
| DCM | 111213 | No image |
| DCM | 111214 | Detector artifact(s) |
| DCM | 111215 | Artifact(s) other than grid or detector artifact |
| DCM | 111216 | Mechanical failure |
| DCM | 111217 | Electrical failure |
| DCM | 111218 | Software failure |
| DCM | 111219 | Inappropriate image processing |
| DCM | 111220 | Other failure |
| DCM | 111221 | Unknown failure |
| DCM | 113026 | Double exposure |

CID 7012 Best in Set

Type: Extensible
Version: 20020904

Table CID 7012. Best in Set

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | 113014 | Study |
| DCM | 113015 | Series |
| DCM | 113016 | Performed Procedure Step |
| DCM | 113017 | Stage-View |

CID 7013 Source Instance Purposes of Reference

Type: Extensible
Version: 20160908

Table CID 7013. Source Instance Purposes of Reference

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------|
| DCM | 121324 | Source image |
| DCM | 128224 | Source measurement |
| DCM | 128225 | Source report |
| DCM | 128226 | Source raw data |

CID 7020 Document Titles

Context Group ID 7020 comprises all document names (i.e., terms with Scale "DOC") within the HIPAA Attachments class of the LOINC coding scheme. The Coding Scheme Designator shall be LN.

Note

1. A subset of this Context Group directly applicable to imaging reports is in CID 7000 "Diagnostic Imaging Report Document Titles".
2. The LOINC coding scheme can be found at <http://www.regenstrief.org/loinc>.

CID 7021 Measurement Report Document Titles

Type: Extensible
Version: 20141110

Table CID 7021. Measurement Report Document Titles

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 126000 | Imaging Measurement Report |
| DCM | 126001 | Oncology Measurement Report |
| DCM | 126002 | Dynamic Contrast MR Measurement Report |
| DCM | 126003 | PET Measurement Report |

CID 7022 Radiotherapy Purposes of Reference

Type: Extensible
Version: 20160314

Table CID 7022. Radiotherapy Purposes of Reference

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| DCM | 121310 | RT treatment plan for the position being verified | | |

CID 7023 RT Process Output

Type: Extensible
Version: 20160908

Table CID 7023. RT Process Output

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------------------|
| DCM | 128184 | Pre-Planning Result |
| DCM | 128185 | RT Prescription Result |
| DCM | 128186 | Dose Calculation Image Series |
| DCM | 128187 | Coordinate Alignment Image Series |
| DCM | 128188 | RT Treatment Simulation Result |
| DCM | 128189 | RT Planning Result |
| DCM | 128190 | Dosimetric Result |
| DCM | 128191 | Patient Setup Verification Result |
| DCM | 128192 | RT Treatment Session Result |
| DCM | 128193 | RT Treatment Course Summary |
| DCM | 128194 | RT Treatment QA Result |

Note

The concepts in the CID are intended to be a declarative statement to represent the output of an operation, without implying that this operation was part of a particular workflow or that the output will be used in any future operation.

CID 7024 RT Process Input

Type: Extensible

Version: 20160908

Table CID 7024. RT Process Input

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------|
| DCM | 128180 | For RT Workflow |
| DCM | 128197 | For RT Prescription |
| DCM | 128198 | For RT Treatment Planning |
| DCM | 128200 | For RT Plan Summation |
| DCM | 128201 | For Physician Review |
| DCM | 128202 | For Physicist Review |
| DCM | 128204 | For Plan Quality Assurance |
| DCM | 128205 | For Machine Quality Assurance |
| DCM | 128206 | For Patient Setup Verification |

Note

The concepts in the CID are intended to be a declarative statement to represent the potential input of an operation, without implying that this operation is part of a particular workflow, that this input will be used at all in any subsequent operation, that only parts of the referenced instances will be used, or that instances other than those referenced will be used as input.

CID 7025 RT Process Input Used

Type: Extensible
Version: 20160908

Table CID 7025. RT Process Input Used

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------------------------|
| DCM | 128209 | RT Workflow Input Used |
| DCM | 128210 | RT Prescription Input Used |
| DCM | 128211 | RT Treatment Planning Input Used |
| DCM | 128212 | RT Plan Summation Input Used |
| DCM | 128213 | Physician Review Input Used |
| DCM | 128214 | Physicist Review Input Used |
| DCM | 128215 | Plan Quality Assurance Input Used |
| DCM | 128216 | Machine Quality Assurance Input Used |
| DCM | 128217 | Patient Setup Verification Input Used |

Note

The concepts in the CID are intended to be a declarative statement to represent input that has been used in an operation, without implying that this operation was part of a particular workflow or how this input was collected.

CID 7030 Institutional Departments, Units and Services

Type: Extensible
Version: 20160314

Table CID 7030. Institutional Departments, Units and Services

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| DCM | 128170 | Abdominal Radiology | | |
| SRT | R-300E3 | Accident and Emergency | 225728007 | C0562508 |
| SRT | R-30246 | Allergy and Immunology | 309913004 | C0587451 |
| SRT | R-3023A | Anesthesiology | 309901009 | C0002907 |
| SRT | R-30247 | Audiology | 309914005 | C0587452 |
| DCM | 128171 | Biomedical Engineering | | |
| SRT | R-3027F | Breast Surgery | 309968000 | C0587504 |
| SRT | R-3060E | Burns Intensive Care | 426439001 | C1959926 |
| SRT | R-30240 | Cardiac Intensive Care | 309907008 | C0587446 |
| SRT | R-30282 | Cardiac Surgery | 309971008 | C0587507 |
| SRT | R-30248 | Cardiology | 309915006 | C0587453 |
| SRT | R-30280 | Cardiothoracic Surgery | 309969008 | C0587505 |
| DCM | 128172 | Cardiovascular Radiology | | |
| SRT | R-30276 | Child and Adolescent Psychiatry | 309959002 | C0587495 |
| SRT | R-421EB | Clinical Biochemistry | 310076001 | C0587609 |
| SRT | R-3023B | Clinical Oncology | 309902002 | C0587443 |
| SRT | R-3028E | Colorectal Surgery | 309983005 | C0587519 |
| SRT | R-4221E | Computerized Tomography Service | 310128004 | C0587659 |
| SRT | R-4225D | Cytology | 310200001 | C0587725 |
| SRT | R-30283 | Dental Surgery | 309972001 | C0587508 |
| SRT | R-30250 | Dermatology | 309923008 | C0587461 |
| SRT | R-3061B | Diagnostic Imaging | 441662001 | C2711258 |
| SRT | R-3028A | Endocrine Surgery | 309979005 | C0587515 |
| SRT | R-30252 | Endocrinology | 309925001 | C0587463 |
| SRT | R-421D4 | Endoscopy | 310030000 | C0587565 |
| SRT | R-3028B | Gastrointestinal Surgery | 309980008 | C0587516 |
| SRT | R-30254 | General Medicine | 309927009 | C0587465 |
| SRT | R-3028F | General Surgery | 309984004 | C0587520 |
| SRT | R-3025A | Geriatric Medicine | 309933000 | C0587471 |
| SRT | R-30264 | Gynecology | 309943002 | C0587481 |
| SRT | R-30290 | Hand Surgery | 309985003 | C0587521 |
| SRT | R-3026F | Hematology | 309954007 | C0587491 |
| SRT | R-4223B | Hepatobiliary Surgery | 310158005 | C0587687 |
| SRT | R-3061D | Histopathology | 441950002 | C2711413 |
| SRT | R-3025B | Infectious Disease | 309934006 | C0587472 |
| DCM | 128173 | Information Technology | | |
| SRT | R-3023D | Intensive Care | 309904001 | C0021708 |
| SRT | R-FF0C4 | Interventional Radiology Service | 708174004 | C3872675 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | R-4221D | Magnetic Resonance Imaging Service | 310127009 | C0587658 |
| SRT | R-3061E | Medical Intensive Care | 441994008 | C2711734 |
| SRT | R-30270 | Medical Microbiology | 309956009 | C0587492 |
| DCM | 128174 | Medical Physics | | |
| DCM | 128175 | Musculoskeletal Radiology | | |
| SRT | R-305CE | Neonatal Intensive Care | 405269005 | C0021709 |
| SRT | R-3025D | Nephrology | 309936008 | C0587474 |
| SRT | R-3025E | Neurology | 309937004 | C0587475 |
| UMLS | C2183225 | Neuroradiology | | C2183225 |
| SRT | R-4223C | Neurosurgery | 310159002 | C0587688 |
| SRT | R-3025F | Nuclear Medicine | 309938009 | C0587476 |
| SRT | R-30265 | Obstetrics | 309944008 | C0028775 |
| SRT | R-30263 | Obstetrics and Gynecology | 309942007 | C0587480 |
| SRT | R-3025C | Ophthalmology | 309935007 | C0587473 |
| SRT | R-42207 | Optometry | 310105000 | C0587638 |
| SRT | R-30285 | Oral Surgery | 309974000 | C0587510 |
| SRT | R-30294 | Orthopedic Surgery | 309989009 | C0587525 |
| SRT | R-30289 | Otorhinolaryngology | 309978002 | C0587514 |
| SRT | R-3026A | Pain Management | 309949003 | C0587486 |
| SRT | R-30260 | Palliative Care | 309939001 | C0587477 |
| SRT | R-3026B | Pathology | 309950003 | C0587487 |
| SRT | R-30243 | Pediatric Intensive Care | 309910001 | C0021710 |
| SRT | R-305EA | Pediatric Medicine | 420223003 | C1628316 |
| SRT | R-30269 | Pediatric Oncology | 309948006 | C0587485 |
| DCM | 128177 | Pediatric Radiology | | |
| SRT | R-30296 | Pediatric Surgery | 309991001 | C0587527 |
| SRT | R-302A2 | Physiotherapy | 310464005 | C0587975 |
| SRT | R-30297 | Plastic Surgery | 309992008 | C0587528 |
| SRT | S-8000A | Primary Care Department | 441480003 | C2711449 |
| SRT | R-30275 | Psychiatry | 309958005 | C0587494 |
| SRT | R-42219 | Psychology | 310123008 | C0587654 |
| SRT | R-3024B | Pulmonology | 309918008 | C0587456 |
| SRT | R-3027B | Radiology | 309964003 | C0587500 |
| SRT | R-3023C | Radiotherapy | 309903007 | C0587444 |
| SRT | R-30261 | Rehabilitation | 309940004 | C0587478 |
| SRT | R-30262 | Rheumatology | 309941000 | C0587479 |
| SRT | R-42203 | Speech and Language Therapy | 310101009 | C0587634 |
| SRT | R-3027D | Stroke | 309966001 | C0587502 |
| SRT | R-3027E | Surgery | 309967005 | C0587503 |
| SRT | R-305EB | Surgical Intensive Care | 418433008 | C1690590 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------|----------------------|------------------------|
| DCM | 128179 | Thoracic Radiology | | |
| SRT | R-30281 | Thoracic Surgery | 309970009 | C0587506 |
| SRT | R-30298 | Transplant Surgery | 309993003 | C0587529 |
| SRT | R-30299 | Trauma Surgery | 309994009 | C0587530 |
| SRT | R-30616 | Tropical Medicine | 441548002 | C2711407 |
| SRT | R-42246 | Ultrasonography | 310169008 | C0587698 |
| SRT | R-3029A | Urology | 309995005 | C0587531 |
| SRT | R-3029B | Vascular Surgery | 309996006 | C0587532 |

Note

In SNOMED, there is often a choice of unit, department or service concepts; in DICOM, the department concept is preferred and used in this context group.

CID 7035 Actionable Finding Classification

Type: Extensible
Version: 20150324

Table CID 7035. Actionable Finding Classification

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------------------|
| RADLEX | RID49480 | ACR Category 1 Actionable Finding |
| RADLEX | RID49481 | ACR Category 2 Actionable Finding |
| RADLEX | RID49482 | ACR Category 3 Actionable Finding |

CID 7036 Image Quality Assessment

Type: Extensible
Version: 20150324

Table CID 7036. Image Quality Assessment

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------|
| RADLEX | RID12 | Diagnostic quality |
| RADLEX | RID13 | Limited quality |
| RADLEX | RID14 | Non-diagnostic quality |

CID 7039 Pediatric Size Categories

Type: Extensible
Version: 20170417

Table CID 7039. Pediatric Size Categories

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------|----------------------|------------------------|
| Include CID 7040 "Broselow-Luten Pediatric Size Categories" | | | | |

CID 7040 Broselow-Luten Pediatric Size Categories

Type: Non-Extensible

Version: 20100127

Table CID 7040. Broselow-Luten Pediatric Size Categories

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | F-051E3 | Broselow Luten Pink Zone (6-7 kg) | 444488009 | C2733122 |
| SRT | F-051DF | Broselow Luten Red Zone (8-9 kg) | 444471002 | C2732530 |
| SRT | F-051E4 | Broselow Luten Purple Zone (10-11 kg) | 444489001 | C2733258 |
| SRT | F-051E8 | Broselow Luten Yellow Zone (12-14 kg) | 444505007 | C2732308 |
| SRT | F-051E7 | Broselow Luten White Zone (15-18 kg) | 444504006 | C2732835 |
| SRT | F-051E0 | Broselow Luten Blue Zone (19-23 kg) | 444474005 | C2733154 |
| SRT | F-051E5 | Broselow Luten Orange Zone (24-29 kg) | 444496004 | C2732302 |
| SRT | F-051E6 | Broselow Luten Green Zone (30-36 kg) | 444503000 | C2732991 |

CID 7041 Calcium Scoring Patient Size Categories

Type: Extensible
Version: 20170417

Table CID 7041. Calcium Scoring Patient Size Categories

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------|----------------------|------------------------|
| Include CID 7042 "CMDCTECC Calcium Scoring Patient Size Categories" | | | | |

CID 7042 CMDCTECC Calcium Scoring Patient Size Categories

Patient sizes for calibrating calcium scoring, from the Consortium for Multi-Detector CT Evaluation of Coronary Calcium.

Type: Non-Extensible
Version: 20100127

Table CID 7042. CMDCTECC Calcium Scoring Patient Size Categories

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 113601 | Small: < 32.0 cm lateral thickness |
| DCM | 113602 | Medium: 32.0-38.0 cm lateral thickness |
| DCM | 113603 | Large: > 38.0 cm lateral thickness |

CID 7050 De-identification Method

Type: Extensible
Version: 20110123

Table CID 7050. De-identification Method

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 113100 | Basic Application Confidentiality Profile |
| DCM | 113101 | Clean Pixel Data Option |
| DCM | 113102 | Clean Recognizable Visual Features Option |
| DCM | 113103 | Clean Graphics Option |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 113104 | Clean Structured Content Option |
| DCM | 113105 | Clean Descriptors Option |
| DCM | 113106 | Retain Longitudinal Temporal Information Full Dates Option |
| DCM | 113107 | Retain Longitudinal Temporal Information Modified Dates Option |
| DCM | 113108 | Retain Patient Characteristics Option |
| DCM | 113109 | Retain Device Identity Option |
| DCM | 113110 | Retain UIDs Option |
| DCM | 113111 | Retain Safe Private Option |

CID 7100 RCS Registration Method Type

Type: Extensible
Version: 20040115

Table CID 7100. RCS Registration Method Type

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------------------|
| DCM | 125021 | Frame of Reference Identity |
| DCM | 125023 | Acquisition Equipment Alignment |
| DCM | 125025 | Visual Alignment |
| DCM | 125022 | Fiducial Alignment |
| DCM | 125024 | Image Content-based Alignment |

CID 7101 Brain Atlas Fiducials

Type: Extensible
Version: 20040115

Table CID 7101. Brain Atlas Fiducials

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| DCM | 125030 | Inter-Hemispheric Plane | | |
| SRT | T-A2980 | Anterior Commissure | 62872008 | C0152335 |
| SRT | T-A4904 | Posterior Commissure | 279336005 | C0152327 |
| DCM | 125031 | Right Hemisphere Most Anterior | | |
| DCM | 125032 | Right Hemisphere Most Posterior | | |
| DCM | 125033 | Right Hemisphere Most Superior | | |
| DCM | 125034 | Right Hemisphere Most Inferior | | |
| DCM | 125035 | Left Hemisphere Most Anterior | | |
| DCM | 125036 | Left Hemisphere Most Posterior | | |
| DCM | 125037 | Left Hemisphere Most Superior | | |
| DCM | 125038 | Left Hemisphere Most Inferior | | |

CID 7110 Fiducials Categories

Type: Extensible
Version: 20160919

Table CID 7110. Fiducials Categories

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| DCM | 112171 | Fiducial mark | | |
| SRT | R-FF2E7 | Anatomical point | 711101009 | C0504079 |
| SRT | T-D002F | Body surface point | 183973000 | C0567332 |
| SRT | R-FDCFF | Body reference point marker | 706484002 | C3872476 |

CID 7111 Fiducials

Type: Extensible
Version: 20160919

Table CID 7111. Fiducials

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| Include CID 3496 "IVUS Fiducial Points" | | | | |
| Include CID 3837 "Fiducial Feature" | | | | |
| Include CID 7101 "Brain Atlas Fiducials" | | | | |

CID 7140 Brain Structures for Volumetric Measurements

Type: Extensible
Version: 20160314

Table CID 7140. Brain Structures for Volumetric Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | T-A3230 | Amygdala | 4958002 | C0002708 |
| SRT | T-D0558 | Brain Stem | 119238007 | C1268144 |
| SRT | T-A3200 | Caudate Nucleus | 11000004 | C0007461 |
| SRT | T-A6041 | Cerebellar Cortex | 361593004 | C1284087 |
| SRT | T-A6080 | Cerebellar White Matter | 33060004 | C0152381 |
| SRT | T-A2020 | Cerebral Grey Matter | 40146001 | C0007776 |
| SRT | T-A2030 | Cerebral White Matter | 68523003 | C0152295 |
| SRT | T-D1403 | Cranial Cavity | 264452006 | C1280705 |
| SRT | T-A1502 | Cranial Subarachnoid Space | 33930006 | C0228145 |
| SRT | T-A1604 | Fifth Ventricle | 180933005 | C0228158 |
| SRT | T-A1820 | Fourth Ventricle | 35918002 | C0149556 |
| SRT | T-A3500 | Globus Pallidus | 14738005 | C0017651 |
| SRT | T-A2570 | Hippocampus | 5366008 | C0019564 |
| SRT | T-A1509 | Cerebellar Subarachnoid Space | 263972004 | C0446676 |
| SRT | T-A1721 | Inferior Horn of Lateral Ventricle | 362315005 | C1284574 |
| SRT | T-A1650 | Lateral Ventricle | 66720007 | C0152279 |
| SRT | T-A0149 | Nucleus Accumbens | 427667007 | C0028633 |
| SRT | T-A0190 | Intracranial structure | 128319008 | C1267697 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | T-A3400 | Putamen | 89278009 | C0034169 |
| SRT | T-D0593 | Thalamus | 119406000 | C0458271 |
| SRT | T-A1740 | Third ventricle | 49841001 | C0149555 |
| DCM | 110700 | Ventral Diencephalon | | |
| DCM | 110701 | White Matter T1 Hypointensity | | |
| DCM | 110702 | White Matter T2 Hyperintensity | | |

Note

1. (T-D1403, SRT, "Cranial Cavity") may be used to describe the volume of the entire intra-cranial space (intra-cranial volume or ICV).
2. (T-A6041, SRT, "Cerebellar Cortex") is the gray matter of the cerebellum (as distinct from (T-A6080, SRT, "Cerebellar white matter")).
3. (T-A1502, SRT, "Cranial Subarachnoid Space") may be used to describe the volume of the exterior CSF (surrounding the brain, excluding the ventricles).
4. (T-A1509, SRT, "Cerebellar Subarachnoid Space") may be used to describe the volume of the inferior intracranial CSF space (infra-tentorial).

CID 7150 Segmentation Property Categories

Type: Extensible
Version: 20140627

Table CID 7150. Segmentation Property Categories

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-D0050 | Tissue | 85756007 | C0040300 |
| SRT | T-D000A | Anatomical Structure | 123037004 | C1268086 |
| SRT | A-00004 | Physical object | 260787004 | C0085089 |
| SRT | M-01000 | Morphologically AlteredAbnormal Structure | 49755003 | C0221198 |
| SRT | R-42019 | Function | 246464006 | C0542341 |
| SRT | R-42018 | Spatial and Relational Concept | 309825002 | C0587374 |
| SRT | T-D0080 | Body Substance | 91720002 | C0504082 |

CID 7151 Segmentation Property Types

Type: Extensible
Version: ~~20130617~~20170405

Table CID 7151. Segmentation Property Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| Include CID 8 "Angiographic Interventional Devices" | | |
| Include CID 3010 "Cardiovascular Anatomic Locations" | | |
| Include CID 3827 "Vessel Segments" | | |
| Include CID 3829 "Pulmonary Arteries" | | |

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 4028 "Craniofacial Anatomic Regions"</i> | | |
| <i>Include CID 4030 "CT, MR and PET Anatomy Imaged"</i> | | |
| <i>Include CID 4040 "Endoscopy Anatomic Regions"</i> | | |
| <i>Include CID 6040 "Non-lesion Object Type"</i> | | |
| <i>Include CID 6109 "Radiographic Anatomy Finding or Feature"</i> | | |
| <i>Include CID 6138 "Chest Non-lesion Object Type"</i> | | |
| <i>Include CID 7152 "Cardiac Structure Segmentation Types"</i> | | |
| <i>Include CID 7153 "CNS Tissue Segmentation Types"</i> | | |
| <i>Include CID 7154 "Abdominal Organ Segmentation Types"</i> | | |
| <i>Include CID 7155 "Thoracic Tissue Segmentation Types"</i> | | |
| <i>Include CID 7156 "Vascular Tissue Segmentation Types"</i> | | |
| <i>Include CID 7157 "Device Segmentation Types"</i> | | |
| <i>Include CID 7158 "Artifact Segmentation Types"</i> | | |
| <i>Include CID 7159 "Lesion Segmentation Types"</i> | | |
| <i>Include CID 7160 "Pelvic Organ Segmentation Types"</i> | | |
| <i>Include CID 7161 "Physiology Segmentation Types"</i> | | |
| <i>Include CID 7165 "Abstract Segmentation Types"</i> | | |
| <i>Include CID 7166 "Common Tissue Segmentation Types"</i> | | |
| <i>Include CID 7167 "Peripheral Nervous System Segmentation Types"</i> | | |
| <i>Include CID 4273 "Retinal Segmentation Surfaces"</i> | | |

Note

This set is expected to be extended as various applications further define segmentation properties.

CID 7152 Cardiac Structure Segmentation Types

Type: Extensible
Version: 20130617

Table CID 7152. Cardiac Structure Segmentation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------|----------------------|------------------------|
| SRT | T-32000 | Heart | 80891009 | C0018787 |
| SRT | T-42000 | Aorta | 15825003 | C0003483 |
| SRT | T-32600 | Left Ventricle | 87878005 | C0225897 |
| SRT | T-32500 | Right Ventricle | 53085002 | C0225883 |
| SRT | T-39000 | Pericardium | 76848001 | C0031050 |
| SRT | T-39050 | Pericardial cavity | 25489000 | C0225972 |

CID 7153 CNS Tissue Segmentation Types

Type: Extensible
Version: 20130617

Table CID 7153. CNS Tissue Segmentation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| SRT | T-B1100 | Adenohypophysis | 62818001 | C0032008 |
| SRT | T-A3230 | Amygdala | 4958002 | C0002708 |
| SRT | T-A1220 | Arachnoid | 75042008 | C0003707 |
| FMA | 276650 | Arcuate Fasciculus | | C2329633 |
| SRT | T-A0100 | Brain | 12738006 | C0006104 |
| SRT | T-A0109 | Brain cerebrospinal fluid pathway | 280371009 | C0459387 |
| SRT | T-D0558 | Brain stem | 119238007 | C1268144 |
| SRT | T-A1600 | Brain ventricle | 35764002 | C0007799 |
| SRT | T-A3200 | Caudate nucleus | 11000004 | C0007461 |
| SRT | T-A0090 | Central nervous system | 21483005 | C0927232 |
| SRT | T-A6080 | Cerebellar white matter | 33060004 | C0152381 |
| SRT | T-A1800 | Cerebral aqueduct | 80447000 | C0007769 |
| SRT | T-A2020 | Cerebral cortex | 40146001 | C0007776 |
| SRT | T-A2970 | Cerebral fornix | 87463005 | C0152334 |
| SRT | T-A2020 | Cerebral Grey Matter | 40146001 | C0007776 |
| SRT | T-A2030 | Cerebral White Matter | 68523003 | C0152295 |
| SRT | T-A1000 | Cerebrospinal Fluid | 65216001 | C0007806 |
| SRT | T-A2840 | Cingulum | 37035000 | C0228272 |
| SRT | T-A2700 | Corpus callosum | 88442005 | C0010090 |
| SRT | T-A3100 | Corpus striatum | 31428008 | C0010097 |
| SRT | T-A0102 | Diencephalon | 87563008 | C0012144 |
| SRT | T-A1120 | Dura mater | 18545000 | C0013313 |
| SRT | T-A2594 | Entorhinal Cortex | 3937002 | C0175196 |
| SRT | T-A1820 | Fourth ventricle | 35918002 | C0149556 |
| SRT | T-A2200 | Frontal lobe | 83251001 | C0016733 |
| SRT | T-A3500 | Globus pallidus | 14738005 | C0017651 |
| SRT | T-A0096 | Gray Matter | 389081007 | C1300312 |
| SRT | T-A2570 | Hippocampus | 5366008 | C0019564 |
| SRT | T-A6640 | Inferior cerebellar peduncle | 67701001 | C0152393 |
| SRT | T-A2850 | Inferior longitudinal fasciculus | 55233005 | C0228273 |
| SRT | T-A2610 | Insula | 36169008 | C0021640 |
| SRT | T-A7093 | Lateral corticospinal tract | 461002 | C0152402 |
| SRT | T-A1650 | Lateral ventricle | 66720007 | C0152279 |
| SRT | T-A0036 | Limbic lobe | 279215006 | C0458337 |
| SRT | T-A5271 | Medial Lemniscus | 30114003 | C0228420 |
| SRT | T-A1110 | Meninges | 1231004 | C0025285 |
| SRT | T-A5100 | Midbrain | 61962009 | C0025462 |
| SRT | T-A0149 | Nucleus accumbens | 427667007 | C0028633 |
| SRT | T-B1200 | Neurohypophysis | 37512009 | C0032009 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | T-A2400 | Occipital lobe | 31065004 | C0028785 |
| SRT | T-A800B | Optic chiasm | 244453006 | C0029126 |
| SRT | T-A2880 | Optic radiation | 70105001 | C0228277 |
| SRT | T-A8060 | Optic tract | 53238003 | C0152405 |
| SRT | T-A2300 | Parietal lobe | 16630005 | C0030560 |
| SRT | T-A1280 | Pia mater | 23180006 | C0031869 |
| SRT | T-B2000 | Pineal Gland | 45793000 | C0031939 |
| SRT | T-B1000 | Pituitary | 56329008 | C0032005 |
| SRT | T-A4904 | Posterior cerebral commissure | 279336005 | C0152327 |
| SRT | T-A3400 | Putamen | 89278009 | C0034169 |
| SRT | T-D0721 | Spinal cerebrospinal fluid pathway | 280401006 | C0459413 |
| SRT | T-A7010 | Spinal cord | 2748008 | C0037925 |
| SRT | T-A7020 | Spinal cord gray matter | 12958003 | C0475853 |
| SRT | T-A7070 | Spinal cord white matter | 27088001 | C0458457 |
| SRT | T-A1500 | Subarachnoid space | 35951006 | C0038527 |
| SRT | T-A5160 | Substantia nigra | 70007007 | C0038590 |
| SRT | T-A6620 | Superior cerebellar peduncle | 11089000 | C0152391 |
| SRT | T-A2820 | Superior longitudinal fasciculus | 89202009 | C0228270 |
| SRT | T-A0103 | Telencephalon | 11628009 | C0039452 |
| SRT | T-A2500 | Temporal lobe | 78277001 | C0039485 |
| SRT | T-D0593 | Thalamus | 119406000 | C0458271 |
| SRT | T-A1740 | Third ventricle | 49841001 | C0149555 |
| SRT | T-A2830 | Uncinate fasciculus | 26230003 | C0228271 |
| SRT | T-A0095 | White Matter | 389080008 | C1300311 |

CID 7154 Abdominal Organ Segmentation Types

Type: Extensible
Version: 20130617

Table CID 7154. Abdominal Organ Segmentation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | T-D4000 | Abdomen | 113345001 | C0000726 |
| SRT | T-D4010 | Abdominal cavity | 52731004 | C0230168 |
| SRT | T-14001 | Abdominal wall muscle | 195879000 | C1279385 |
| SRT | T-B3000 | Adrenal gland | 23451007 | C0001625 |
| SRT | T-42500 | Abdominal aorta | 7832008 | C0003484 |
| SRT | T-60610 | Bile Duct | 28273000 | C0005400 |
| SRT | T-48710 | Inferior vena cava | 64131007 | C0042458 |
| SRT | T-71000 | Kidney | 64033007 | C0022646 |
| SRT | T-62000 | Liver | 10200004 | C0023884 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | T-D4600 | Omentum | 27398004 | C0028977 |
| SRT | T-D4425 | Peritoneal cavity | 83670000 | C1704247 |
| SRT | T-D4400 | Peritoneum | 15425007 | C0031153 |
| SRT | T-D4900 | Retroperitoneal space | 82849001 | C0035359 |
| SRT | T-02480 | Skin of abdomen | 75093004 | C0222166 |
| SRT | T-58000 | Small Intestine | 30315005 | C0021852 |
| SRT | T-C3000 | Spleen | 78961009 | C0037993 |
| SRT | T-70001 | Urinary system | 122489005 | C1508753 |

CID 7155 Thoracic Tissue Segmentation Types

Type: Extensible
Version: 20130617

Table CID 7155. Thoracic Tissue Segmentation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | T-40000 | Blood Vessel | 59820001 | C0005847 |
| SRT | T-D0170 | Bone of thorax | 272710004 | C0448157 |
| SRT | T-26000 | Bronchus | 955009 | C0006255 |
| SRT | T-14122 | Chest wall muscle | 372074006 | C1269825 |
| SRT | T-12310 | Clavicle | 51299004 | C0008913 |
| SRT | T-D3400 | Diaphragm | 5798000 | C0011980 |
| SRT | T-56000 | Esophagus | 32849002 | C0014876 |
| SRT | T-28830 | Lower lobe of lung | 90572001 | C0225758 |
| SRT | T-28000 | Lung | 39607008 | C0024109 |
| SRT | T-D3300 | Mediastinum | 72410000 | C0025066 |
| SRT | T-28300 | Middle lobe of right lung | 72481006 | C0225757 |
| SRT | T-29000 | Pleura | 3120008 | C0032225 |
| SRT | T-11300 | Rib | 113197003 | C0035561 |
| SRT | T-02424 | Skin of chest | 74160004 | C0222149 |
| SRT | T-11210 | Sternum | 56873002 | C0038293 |
| SRT | T-11502 | Thoracic spine | 122495006 | C0581269 |
| SRT | T-D3000 | Thorax | 51185008 | C0817096 |
| SRT | T-25000 | Trachea | 44567001 | C0040578 |
| SRT | T-C8000 | Thymus | 9875009 | C0040113 |
| SRT | T-28820 | Upper lobe of lung | 45653009 | C0225756 |

CID 7156 Vascular Tissue Segmentation Types

Type: Extensible
Version: 20160314

Table CID 7156. Vascular Tissue Segmentation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | T-1A190 | Adventitia | 30180000 | C0225342 |
| SRT | T-30000 | Cardiovascular system | 113257007 | C0007226 |
| SRT | T-1A170 | Intima | 8361002 | C0162864 |
| SRT | T-40230 | Lumen | 91747007 | C0524424 |
| SRT | T-1A180 | Media | 61695000 | C0162867 |
| SRT | T-4105E | Systemic artery | 281159003 | C0459964 |
| SRT | T-48081 | Systemic vein | 360592004 | C0447117 |
| SRT | M-35001 | Thrombus | 396339007 | C0087086 |
| SRT | M-520F8 | Vascular sclerosis | 107671003 | C0003850 |

CID 7157 Device Segmentation Types

Type: Extensible
Version: 20130617

Table CID 7157. Device Segmentation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | A-12024 | Bone Pin | 77444004 | C0175718 |
| SRT | A-12030 | Bone Screw | 68183006 | C0005975 |
| SRT | A-11100 | Cardiac Pacemaker | 14106009 | C0030163 |
| SRT | A-11206 | Defibrillator | 72506001 | C0162589 |
| SRT | A-04200 | Dental Prosthesis | 27606000 | C0162686 |
| SRT | A-04036 | Inlay Dental Restoration | 272287005 | C0441351 |
| SRT | A-11FCD | Left ventricular assist device | 360066001 | C0181598 |
| SRT | A-30360 | Needle | 79068005 | C0027551 |
| SRT | A-04034 | Radioactive implant | 19443004 | C0521196 |
| SRT | A-25500 | Stent | 65818007 | C0038257 |

CID 7158 Artifact Segmentation Types

Type: Extensible
Version: 20130617

Table CID 7158. Artifact Segmentation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | A-00916 | Clothing | 272180002 | C0009072 |
| SRT | M-30400 | Foreign body | 19227008 | C0016542 |
| SRT | A-17350 | Table | 86407004 | C0039224 |

CID 7159 Lesion Segmentation Types

Type: Extensible
Version: 20150106

Table CID 7159. Lesion Segmentation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------|----------------------|------------------------|
| SRT | M-41610 | Abscess | 44132006 | C0000833 |
| SRT | M-35000 | Blood clot | 75753009 | C0302148 |
| SRT | M-3340A | Cyst | 367643001 | C0010709 |
| SRT | M-36300 | Edema | 79654002 | C0013604 |
| SRT | M-35300 | Embolus | 55584005 | C1704212 |
| SRT | M-37000 | Hemorrhage | 50960005 | C0019080 |
| SRT | M-40000 | Inflammation | 23583003 | C0021368 |
| SRT | M-03000 | Mass | 4147007 | C0577559 |
| SRT | M-54000 | Necrosis | 6574001 | C0027540 |
| SRT | M-8FFFF | Neoplasm | 108369006 | C0027651 |
| SRT | M-80003 | Neoplasm, Primary | 86049000 | C1306459 |
| SRT | M-80006 | Neoplasm, Secondary | 14799000 | C2939419 |
| SRT | M-03010 | Nodule | 27925004 | C0028259 |

CID 7160 Pelvic Organ Segmentation Types

Type: Extensible
Version: 20130617

Table CID 7160. Pelvic Organ Segmentation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | T-74000 | Bladder | 89837001 | C0005682 |
| SRT | T-83200 | Cervix | 71252005 | C0007874 |
| SRT | T-88000 | Fallopian tube | 31435000 | C0015560 |
| SRT | T-80010 | Female external genitalia | 86969008 | C0227747 |
| SRT | T-80020 | Female internal genitalia | 87759004 | C0227748 |
| SRT | T-90010 | Male external genitalia | 90418005 | C0227922 |
| SRT | T-90020 | Male internal genitalia | 38242008 | C0227923 |
| SRT | T-87000 | Ovary | 15497006 | C0029939 |
| SRT | T-92000 | Prostate | 41216001 | C0033572 |
| SRT | T-59600 | Rectum | 34402009 | C0034896 |
| SRT | T-93000 | Seminal Vesicle | 64739004 | C0036628 |
| SRT | T-94000 | Testis | 40689003 | C0039597 |
| SRT | T-83000 | Uterus | 35039007 | C0042149 |
| SRT | T-82000 | Vagina | 76784001 | C0042232 |
| SRT | T-96000 | Vas deferens | 57671007 | C0042360 |

CID 7161 Physiology Segmentation Types

Type: Extensible
Version: 20060822

Table CID 7161. Physiology Segmentation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-0039F | Perfusion | 371863001 | C1276288 |

CID 7162 Surface Processing Algorithm Families

Type: Extensible

Version: 20080829

Table CID 7162. Surface Processing Algorithm Families

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------------|
| DCM | 123101 | Neighborhood Analysis |
| DCM | 123102 | Adaptive Filtering |
| DCM | 123103 | Edge Detection |
| DCM | 123104 | Morphological Operations |
| DCM | 123105 | Histogram Analysis |
| DCM | 123106 | Multi-Scale/Resolution Filtering |
| DCM | 123107 | Cluster Analysis |
| DCM | 123108 | Multispectral Processing |
| DCM | 123109 | Manual Processing |
| DCM | 123110 | Artificial Intelligence |
| DCM | 123111 | Deformable Models |

CID 7165 Abstract Segmentation Types

Type: Extensible

Version: 20151113

Table CID 7165. Abstract Segmentation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|
| DCM | 125040 | Background | | |
| SRT | T-D0050 | Tissue | 85756007 | C0040300 |
| SRT | F-61779 | Waste Material | 289925000 | C0043045 |
| DCM | 125041 | Registration Input | | |
| DCM | 113132 | Single subject extracted from group | | |
| NCIt | C94970 | Reference Region | | C2986814 |

CID 7166 Common Tissue Segmentation Types

Type: Extensible

Version: 20160314

Table CID 7166. Common Tissue Segmentation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | T-41000 | Artery | 51114001 | C0003842 |
| SRT | T-60650 | Bile | 70150004 | C0005388 |
| SRT | T-C2000 | Blood | 87612001 | C0005767 |
| SRT | T-40000 | Blood vessel | 59820001 | C0005847 |
| SRT | F-03D38 | Body fat | 248300009 | C0344335 |
| SRT | T-D0070 | Body fluid | 32457005 | C0005889 |
| SRT | T-D016E | Bone | 272673000 | C0262950 |
| SRT | T-40050 | Capillary | 20982000 | C0006901 |
| SRT | T-D021B | Cartilage | 309312004 | C0007301 |
| SRT | T-1A200 | Connective tissue | 21793004 | C0009780 |
| SRT | T-59666 | Feces | 39477002 | C0015733 |
| SRT | C-10080 | Gas | 74947009 | C0017110 |
| SRT | T-18010 | Ligament | 52082005 | C0023685 |
| SRT | T-C4000 | Lymph node | 59441001 | C0024204 |
| SRT | T-C6000 | Lymphatic system | 89890002 | C0024235 |
| SRT | T-C6010 | Lymphatic vessel | 83555006 | C0229889 |
| SRT | T-15009 | Meniscus | 74135004 | C0224498 |
| SRT | T-13001 | Muscle | 71616004 | C0026845 |
| SRT | T-D0598 | Nerve | 119410002 | C1268169 |
| SRT | T-D0060 | Organ | 113343008 | C0229983 |
| SRT | T-01000 | Skin | 39937001 | C1123023 |
| SRT | T-17010 | Tendon | 13024002 | C0039508 |
| SRT | T-D0050 | Tissue | 85756007 | C0040300 |
| SRT | T-70060 | Urine | 78014005 | C0042036 |
| SRT | T-48000 | Vein | 29092000 | C0042449 |

CID 7167 Peripheral Nervous System Segmentation Types

Type: Extensible
Version: 20130617

Table CID 7167. Peripheral Nervous System Segmentation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | T-A0140 | Peripheral nervous system | 3058005 | C0206417 |
| SRT | T-A0500 | Peripheral nerve | 84782009 | C0031119 |
| SRT | T-A8000 | Cranial nerve | 25238003 | C0010268 |
| SRT | T-A8640 | Vagus nerve | 88882009 | C0042276 |
| SRT | T-A9605 | Autonomic nerve | 53520000 | C0206250 |
| SRT | T-A9630 | Sympathetic trunk | 44909008 | C0228972 |

CID 7180 Abstract Multi-dimensional Image Model Component Semantics

Type: Extensible
Version: ~~20164106~~20170413

Table CID 7180. Abstract Multi-dimensional Image Model Component Semantics

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|-------------------|--|----------------------|------------------------|
| <i>Include CID 4033 "MR Proton Spectroscopy Metabolites"</i> | | | | |
| DCM | 113063 | T1 | | |
| DCM | 113065 | T2 | | |
| DCM | 113064 | T2* | | |
| DCM | 113058 | Proton Density | | |
| DCM | 110800 | Spin Tagging Perfusion MR Signal Intensity | | |
| DCM | 113070 | Velocity encoded | | |
| DCM | 113067 | Temperature encoded | | |
| DCM | 110801 | Contrast Agent Angio MR Signal Intensity | | |
| DCM | 110802 | Time Of Flight Angio MR Signal Intensity | | |
| DCM | 110803 | Proton Density Weighted MR Signal Intensity | | |
| DCM | 110804 | T1 Weighted MR Signal Intensity | | |
| DCM | 110805 | T2 Weighted MR Signal Intensity | | |
| DCM | 110806 | T2* Weighted MR Signal Intensity | | |
| DCM | 113043 | Diffusion-weighted | | |
| <i>Include Section CID 7270 "MR Diffusion Component Semantics"</i> | | | | |
| <i>Include Section CID 7271 "MR Diffusion Anisotropy Indices"</i> | | | | |
| <i>Include Section CID 7272 "MR Diffusion Model Parameters"</i> | | | | |
| DCM | 110807 | Field Map MR Signal Intensity | | |
| DCM | 110808 | Fractional Anisotropy | | |
| DCM | 110809 | Relative Anisotropy | | |
| DCM | 113041 | Apparent Diffusion Coefficient | | |
| DCM | 110810 | Volumetric Diffusion Dxx Component | | |
| DCM | 110811 | Volumetric Diffusion Dxy Component | | |
| DCM | 110812 | Volumetric Diffusion Dxz Component | | |
| DCM | 110813 | Volumetric Diffusion Dyy Component | | |
| DCM | 110814 | Volumetric Diffusion Dyz Component | | |
| DCM | 110815 | Volumetric Diffusion Dzz Component | | |
| DCM | 110816 | T1 Weighted Dynamic Contrast Enhanced MR Signal Intensity | | |
| DCM | 110817 | T2 Weighted Dynamic Contrast Enhanced MR Signal Intensity | | |
| DCM | 110818 | T2* Weighted Dynamic Contrast Enhanced MR Signal Intensity | | |
| DCM | 110819 | Blood Oxygenation Level | | |
| DCM | 110820 | Nuclear Medicine Projection Activity | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| DCM | 110821 | Nuclear Medicine Tomographic Activity | | |
| DCM | 110822 | Spatial Displacement X Component | | |
| DCM | 110823 | Spatial Displacement Y Component | | |
| DCM | 110824 | Spatial Displacement Z Component | | |
| DCM | 110825 | Hemodynamic Resistance | | |
| DCM | 110826 | Indexed Hemodynamic Resistance | | |
| DCM | 112031 | Attenuation Coefficient | | |
| DCM | 110827 | Tissue Velocity | | |
| DCM | 110828 | Flow Velocity | | |
| SRT | P0-02241 | Power Doppler | 425704008 | C1960437 |
| DCM | 110829 | Flow Variance | | |
| DCM | 110830 | Elasticity | | |
| DCM | 110831 | Perfusion | | |
| DCM | 110832 | Speed of sound | | |
| DCM | 110833 | Ultrasound Attenuation | | |
| DCM | 113068 | Student's T-test | | |
| DCM | 113071 | Z-score | | |
| DCM | 113057 | R-Coefficient | | |
| DCM | 126220 | R2-Coefficient | | |
| DCM | 110834 | RGB R Component | | |
| DCM | 110835 | RGB G Component | | |
| DCM | 110836 | RGB B Component | | |
| DCM | 110837 | YBR FULL Y Component | | |
| DCM | 110838 | YBR FULL CB Component | | |
| DCM | 110839 | YBR FULL CR Component | | |
| DCM | 110840 | YBR PARTIAL Y Component | | |
| DCM | 110841 | YBR PARTIAL CB Component | | |
| DCM | 110842 | YBR PARTIAL CR Component | | |
| DCM | 110843 | YBR ICT Y Component | | |
| DCM | 110844 | YBR ICT CB Component | | |
| DCM | 110845 | YBR ICT CR Component | | |
| DCM | 110846 | YBR RCT Y Component | | |
| DCM | 110847 | YBR RCT CB Component | | |
| DCM | 110848 | YBR RCT CR Component | | |
| DCM | 110849 | Echogenicity | | |
| DCM | 110850 | X-Ray Attenuation | | |
| DCM | 110852 | MR signal intensity | | |
| DCM | 110853 | Binary Segmentation | | |
| DCM | 110854 | Fractional Probabilistic Segmentation | | |
| DCM | 110855 | Fractional Occupancy Segmentation | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|------------------------------|----------------------|------------------------|
| DCM | 126393 | R1 | | |
| DCM | 126394 | R2 | | |
| DCM | 126395 | R2* | | |
| DCM | 113098 | Magnetization Transfer Ratio | | |
| DCM | 126396 | Magnetic Susceptibility | | |
| Include Section CID 4107 "Tracer Kinetic Model Parameters" | | | | |
| Include Section CID 4108 "Perfusion Model Parameters" | | | | |
| Include Section CID 4109 "Model-Independent Dynamic Contrast Analysis Parameters" | | | | |
| DCM | 126400 | Standardized Uptake Value | | |
| DCM | 126401 | SUVbw | | |
| DCM | 126402 | SUVlbm | | |
| DCM | 126406 | SUVlbm(James128) | | |
| DCM | 126405 | SUVlbm(Janma) | | |
| DCM | 126403 | SUVbsa | | |
| DCM | 126404 | SUVibw | | |
| Include CID 10070 "Radiation Dose Types" | | | | |

CID 7181 Abstract Multi-dimensional Image Model Component Units

Type: Extensible
Version: ~~20164106~~20170413

Table CID 7181. Abstract Multi-dimensional Image Model Component Units

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|-------------------|
| Include CID 3500 "Pressure Units" | | |
| Include CID 3502 "Hemodynamic Resistance Units" | | |
| Include CID 3503 "Indexed Hemodynamic Resistance Units" | | |
| Include CID 7460 "Units of Linear Measurement" | | |
| Include CID 7461 "Units of Area Measurement" | | |
| Include CID 7462 "Units of Volume Measurement" | | |
| Include CID 84 "PET Units" | | |
| Include CID 7277 "Units of Diffusion Rate Area Over Time" | | |
| UCUM | 1 | no units |
| UCUM | {ratio} | ratio |
| UCUM | [hnsfU] | Hounsfield Unit |
| UCUM | {counts} | Counts |
| UCUM | {counts}/s | Counts per second |
| UCUM | [arb'U] | arbitrary unit |
| UCUM | ppm | ppm |
| UCUM | cm/s | centimeter/second |
| UCUM | mm/s | millimeter/second |
| UCUM | dB | decibel |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|----------------------------|---|
| UCUM | Cel | degrees Celsius |
| UCUM | ml/min | milliliter per minute |
| UCUM | ml/s | milliliter per second |
| UCUM | ms | millisecond |
| UCUM | s | second |
| UCUM | Hz | Hertz |
| UCUM | mT | milliTesla |
| UCUM | {Particles}/[100]g{Tissue} | number particles per 100 gram of tissue |
| UCUM | mm2/s | square-millimeter-per-second |
| UCUM | s/mm2 | second per square millimeter |
| UCUM | ml/[100]g/min | milliliter per 100 gram per minute |
| UCUM | ml/[100]ml | milliliter per 100 milliliter |
| UCUM | mmol/kg{WetWeight} | millimoles per kg wet weight |
| UCUM | /min | /min |
| UCUM | /s | /s |

CID 7182 Abstract Multi-dimensional Image Model Dimension Semantics

Type: Extensible
Version: 20100825

Table CID 7182. Abstract Multi-dimensional Image Model Dimension Semantics

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------|
| DCM | 110856 | Linear Displacement |
| DCM | 110857 | Photon Energy |
| DCM | 110858 | Time |
| DCM | 110859 | Angle |

CID 7183 Abstract Multi-dimensional Image Model Dimension Units

Type: Extensible
Version: 20100825

Table CID 7183. Abstract Multi-dimensional Image Model Dimension Units

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 7460 "Units of Linear Measurement"</i> | | |
| UCUM | ms | Millisecond |
| UCUM | s | Second |
| UCUM | deg | Degree |
| UCUM | rad | Radian |

CID 7184 Abstract Multi-dimensional Image Model Axis Direction

Type: Extensible
Version: 20100825

Table CID 7184. Abstract Multi-dimensional Image Model Axis Direction

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------|
| DCM | 110860 | Left-Right Axis |
| DCM | 110861 | Head-Foot Axis |
| DCM | 110862 | Anterior-Posterior Axis |
| DCM | 110863 | Apex-Base Axis |
| DCM | 110864 | Anterior-Inferior Axis |
| DCM | 110865 | Septum-Wall Axis |

CID 7185 Abstract Multi-dimensional Image Model Axis Orientation

Type: Extensible
Version: 20100825

Table CID 7185. Abstract Multi-dimensional Image Model Axis Orientation

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------|
| DCM | 110866 | Right To Left |
| DCM | 110867 | Left To Right |
| DCM | 110868 | Head To Foot |
| DCM | 110869 | Foot To Head |
| DCM | 110870 | Anterior To Posterior |
| DCM | 110871 | Posterior To Anterior |
| DCM | 110872 | Apex To Base |
| DCM | 110873 | Base To Apex |
| DCM | 110874 | Anterior To Inferior |
| DCM | 110875 | Inferior To Anterior |
| DCM | 110876 | Septum To Wall |
| DCM | 110877 | Wall To Septum |

CID 7186 Abstract Multi-dimensional Image Model Qualitative Dimension Sample Semantics

Type: Extensible
Version: 20100825

Table CID 7186. Abstract Multi-dimensional Image Model Qualitative Dimension Sample Semantics

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|------------------------------------|
| <i>Include CID 4033 "MR Proton Spectroscopy Metabolites"</i> | | |
| DCM | 110810 | Volumetric Diffusion Dxx Component |
| DCM | 110811 | Volumetric Diffusion Dxy Component |
| DCM | 110812 | Volumetric Diffusion Dxz Component |
| DCM | 110813 | Volumetric Diffusion Dyy Component |
| DCM | 110814 | Volumetric Diffusion Dyz Component |
| DCM | 110815 | Volumetric Diffusion Dzz Component |
| DCM | 110834 | RGB R Component |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | 110835 | RGB G Component |
| DCM | 110836 | RGB B Component |
| DCM | 110837 | YBR FULL Y Component |
| DCM | 110838 | YBR FULL CB Component |
| DCM | 110839 | YBR FULL CR Component |
| DCM | 110840 | YBR PARTIAL Y Component |
| DCM | 110841 | YBR PARTIAL CB Component |
| DCM | 110842 | YBR PARTIAL CR Component |
| DCM | 110843 | YBR ICT Y Component |
| DCM | 110844 | YBR ICT CB Component |
| DCM | 110845 | YBR ICT CR Component |
| DCM | 110846 | YBR RCT Y Component |
| DCM | 110847 | YBR RCT CB Component |
| DCM | 110848 | YBR RCT CR Component |

CID 7201 Referenced Image Purposes of Reference

Type: Extensible
Version: 20090409

Table CID 7201. Referenced Image Purposes of Reference

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 121311 | Localizer |
| DCM | 121312 | Biopsy localizer |
| DCM | 121313 | Other partial views |
| DCM | 121314 | Other image of biplane pair |
| DCM | 121315 | Other image of stereoscopic pair |
| DCM | 121316 | Images related to standalone object |
| DCM | 121317 | Spectroscopy |
| DCM | 121338 | Anatomic image |
| DCM | 121339 | Functional image |
| DCM | 121340 | Spectral filtered image |
| DCM | 121341 | Device localizer |
| DCM | 121346 | Acquisition frames corresponding to volume |
| DCM | 121347 | Volume corresponding to spatially-related acquisition frames |
| DCM | 121348 | Temporal Predecessor |
| DCM | 121349 | Temporal Successor |

CID 7202 Source Image Purposes of Reference

Type: Extensible
Version: ~~20151113~~20170405

Table CID 7202. Source Image Purposes of Reference

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 121320 | Uncompressed predecessor |
| DCM | 121321 | Mask image for image processing operation |
| DCM | 121322 | Source image for image processing operation |
| DCM | 121329 | Source image for montage |
| DCM | 121330 | Lossy compressed predecessor |
| DCM | 121358 | For Processing predecessor |
| DCM | 113130 | Predecessor containing group of imaging subjects |
| DCM | 128250 | Structural image for image processing |
| DCM | 128251 | Flow image for image processing |

CID 7203 Image Derivation

Type: Extensible
Version: ~~20164106~~20170405

Table CID 7203. Image Derivation

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 113040 | Lossy Compression |
| DCM | 113041 | Apparent Diffusion Coefficient |
| DCM | 113042 | Pixel by pixel addition |
| DCM | 113043 | Diffusion weighted |
| DCM | 113044 | Diffusion Anisotropy |
| DCM | 113045 | Diffusion Attenuated |
| DCM | 113046 | Pixel by pixel division |
| DCM | 113047 | Pixel by pixel mask |
| DCM | 113048 | Pixel by pixel Maximum |
| DCM | 113049 | Pixel by pixel mean |
| DCM | 113050 | Metabolite Maps from spectroscopy data |
| DCM | 113051 | Pixel by pixel Minimum |
| DCM | 113052 | Mean Transit Time |
| DCM | 113053 | Pixel by pixel multiplication |
| DCM | 113054 | Negative Enhancement Integral |
| DCM | 113055 | Regional Cerebral Blood Flow |
| DCM | 113056 | Regional Cerebral Blood Volume |
| DCM | 113057 | R-Coefficient |
| DCM | 113058 | Proton Density |
| DCM | 113059 | Signal Change |
| DCM | 113060 | Signal to Noise |
| DCM | 113061 | Standard Deviation |
| DCM | 113062 | Pixel by pixel subtraction |
| DCM | 113063 | T1 |
| DCM | 113064 | T2* |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 113065 | T2 |
| DCM | 113066 | Time Course of Signal |
| DCM | 113067 | Temperature encoded |
| DCM | 113068 | Student's T-Test |
| DCM | 113069 | Time To Peak |
| DCM | 113084 | Tmax |
| DCM | 113070 | Velocity encoded |
| DCM | 113071 | Z-Score |
| DCM | 113072 | Multiplanar reformatting |
| DCM | 113073 | Curved multiplanar reformatting |
| DCM | 113074 | Volume rendering |
| DCM | 113075 | Surface rendering |
| DCM | 113076 | Segmentation |
| DCM | 113077 | Volume editing |
| DCM | 113078 | Maximum intensity projection |
| DCM | 113079 | Minimum intensity projection |
| DCM | 113085 | Spatial resampling |
| DCM | 113086 | Edge enhancement |
| DCM | 113087 | Smoothing |
| DCM | 113088 | Gaussian blur |
| DCM | 113089 | Unsharp mask |
| DCM | 113090 | Image stitching |
| DCM | 113091 | Spatially-related frames extracted from the volume |
| DCM | 113092 | Temporally-related frames extracted from the set of volumes |
| DCM | 113097 | Multi-energy proportional weighting |
| DCM | 113093 | Polar to Rectangular Scan Conversion |
| DCM | 113131 | Extraction of individual subject from group |
| DCM | 128303 | OCT B-scan analysis |

CID 7205 Purpose of Reference to Alternate Representation

Type: Extensible
Version: 20040322

Table CID 7205. Purpose of Reference to Alternate Representation

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 121324 | Source image |
| DCM | 121325 | Lossy compressed image |
| DCM | 121326 | Alternate SOP Class instance |
| DCM | 121327 | Full fidelity image |
| DCM | 121328 | Alternate Photometric Interpretation image |

CID 7210 Related Series Purposes of Reference

Type: Extensible
Version: 20140627

Table CID 7210. Related Series Purposes of Reference

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 122400 | Simultaneously Acquired |
| DCM | 122401 | Same Anatomy |
| DCM | 122402 | Same Indication |
| DCM | 122403 | For Attenuation Correction |
| DCM | 121323 | Source series for image processing operation |

CID 7215 Spectroscopy Purpose of Reference

Type: Extensible
Version: 20140105

Table CID 7215. Spectroscopy Purpose of Reference

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 121318 | Spectroscopy Data for Water Phase Correction |

CID 7220 RT Dose Derivation

Type: Extensible
Version: 20140106

Table CID 7220. RT Dose Derivation

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 121370 | Composed from prior doses |
| DCM | 121371 | Composed from prior doses and current plan |

CID 7221 RT Dose Purpose of Reference

Type: Extensible
Version: 20140106

Table CID 7221. RT Dose Purpose of Reference

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 121372 | Source dose for composing current dose |

CID 7222 Parametric Map Derivation Image Purpose of Reference

Type: Extensible
Version: 20141110

Table CID 7222. Parametric Map Derivation Image Purpose of Reference

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 121322 | Source Image for Image Processing Operation |

CID 7250 Multi-Frame Subset Type

This Context Group specifies the terms used to identify a subset of frames of a multi-frame image. It is used for encoding an equivalent of the Image SOP Instance Reference Macro (see PS3.3) in an HL7 v3 data structure (see HL7 v3 CMET, COCT_RM830120 "A_DicomCompositeObjectReference minimal").

Type: Extensible
Version: 20070625

Table CID 7250. Multi-Frame Subset Type

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------|
| DCM | 121190 | Referenced Frames |
| DCM | 121191 | Referenced Segment |

CID 7260 Diffusion Acquisition Value Types

Type: Extensible
Version: 20150918

Table CID 7260. Diffusion Acquisition Value Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------|
| DCM | 113221 | HARDI |
| DCM | 113222 | DKI |
| DCM | 113223 | DTI |
| DCM | 113224 | DSI |
| DCM | 113225 | LSDI |
| DCM | 113226 | Single Shot EPI |
| DCM | 113227 | Multiple Shot EPI |
| DCM | 113228 | Parallel Imaging |

CID 7261 Diffusion Model Value Types

Type: Extensible
Version: 20150918

Table CID 7261. Diffusion Model Value Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------|
| DCM | 113231 | Single Tensor |
| DCM | 113232 | Multi Tensor |
| DCM | 113233 | Model Free |
| DCM | 113234 | CHARMED |
| DCM | 113224 | DSI |
| DCM | 113236 | DOT |
| DCM | 113237 | PAS |
| DCM | 113238 | Spherical Deconvolution |

CID 7262 Diffusion Tractography Algorithm Families

Type: Extensible
Version: 20150918

Table CID 7262. Diffusion Tractography Algorithm Families

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------|
| DCM | 113211 | Deterministic |
| DCM | 113212 | Probabilistic |
| DCM | 113213 | Global |
| DCM | 113214 | FACT |
| DCM | 113215 | Streamline |
| DCM | 113216 | TEND |
| DCM | 113217 | Bootstrap |
| DCM | 113218 | Euler |
| DCM | 113219 | Runge-Kutta |

CID 7263 Diffusion Tractography Measurement Types

Type: Extensible
Version: 20150918

Table CID 7263. Diffusion Tractography Measurement Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------------|
| DCM | 113201 | Trace |
| DCM | 113202 | Mean Diffusivity |
| DCM | 113041 | Apparent Diffusion Coefficient |
| DCM | 110808 | Fractional Anisotropy |
| DCM | 110809 | Relative Anisotropy |
| DCM | 113203 | Radial Diffusivity |
| DCM | 113204 | Axial Diffusivity |
| DCM | 113205 | Mean Kurtosis |
| DCM | 113206 | Apparent Kurtosis Coefficient |
| DCM | 113207 | Radial Kurtosis |
| DCM | 113208 | Axial Kurtosis |
| DCM | 113209 | Fractional Kurtosis Anisotropy |
| DCM | 110810 | Volumetric Diffusion Dxx Component |
| DCM | 110811 | Volumetric Diffusion Dxy Component |
| DCM | 110812 | Volumetric Diffusion Dxz Component |
| DCM | 110813 | Volumetric Diffusion Dyy Component |
| DCM | 110814 | Volumetric Diffusion Dyz Component |
| DCM | 110815 | Volumetric Diffusion Dzz Component |

CID 7270 MR Diffusion Component Semantics

Type: Extensible
Version: 20170413

Table CID 7270. MR Diffusion Component Semantics

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|------------------------------------|----------------------|------------------------|--------------------------|
| DCM | 113043 | Diffusion weighted | | | DT (1, UCUM, "no units") |
| DCM | 110810 | Volumetric Diffusion Dxx Component | | | DT (1, UCUM, "no units") |
| DCM | 110811 | Volumetric Diffusion Dxy Component | | | DT (1, UCUM, "no units") |
| DCM | 110812 | Volumetric Diffusion Dxz Component | | | DT (1, UCUM, "no units") |
| DCM | 110813 | Volumetric Diffusion Dyy Component | | | DT (1, UCUM, "no units") |
| DCM | 110814 | Volumetric Diffusion Dyz Component | | | DT (1, UCUM, "no units") |
| DCM | 110815 | Volumetric Diffusion Dzz Component | | | DT (1, UCUM, "no units") |

CID 7271 MR Diffusion Anisotropy Indices

Type: Extensible
Version: 20170413

Table CID 7271. MR Diffusion Anisotropy Indices

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|-----------------------|----------------------|------------------------|-------------------------------|
| DCM | 110808 | Fractional Anisotropy | | | DT ({0:1}, UCUM, "range 0:1") |
| DCM | 110809 | Relative Anisotropy | | | DT ({ratio}, UCUM, "ratio") |
| DCM | 113288 | Volume Ratio | | | DT ({0:1}, UCUM, "range 0:1") |

CID 7272 MR Diffusion Model Parameters

Type: Extensible
Version: 20170413

Table CID 7272. MR Diffusion Model Parameters

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|---|----------------------|------------------------|--|
| DCM | 113041 | Apparent Diffusion Coefficient | | C3890194 | DCID 7277 "Units of Diffusion Rate Area Over Time" |
| DCM | 113289 | Diffusion Coefficient | | | DCID 7277 "Units of Diffusion Rate Area Over Time" |
| DCM | 113290 | Mono-exponential Apparent Diffusion Coefficient | | | DCID 7277 "Units of Diffusion Rate Area Over Time" |
| DCM | 113291 | Slow Diffusion Coefficient | | | DCID 7277 "Units of Diffusion Rate Area Over Time" |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|--|
| DCM | 113292 | Fast Diffusion Coefficient | | | DCID 7277 "Units of Diffusion Rate Area Over Time" |
| DCM | 113293 | Fast Diffusion Coefficient Fraction | | | DT ({0:1}, UCUM, "range 0:1") |
| DCM | 113294 | Kurtosis Diffusion Coefficient | | | DCID 7277 "Units of Diffusion Rate Area Over Time" |
| DCM | 113295 | Gamma Distribution Scale Parameter | | | DT (1, UCUM, "no units") |
| DCM | 113296 | Gamma Distribution Shape Parameter | | | DT (1, UCUM, "no units") |
| DCM | 113297 | Gamma Distribution Mode | | | DT (1, UCUM, "no units") |
| DCM | 113298 | Distributed Diffusion Coefficient | | | DCID 7277 "Units of Diffusion Rate Area Over Time" |
| DCM | 113299 | Anomalous Exponent Parameter | | | DT ({0:1}, UCUM, "range 0:1") |

CID 7273 MR Diffusion Models

Type: Extensible
Version: 20170413

Table CID 7273. MR Diffusion Models

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------------------------|
| DCM | 113250 | Mono-exponential diffusion model |
| DCM | 113251 | Bi-exponential (IVIM) diffusion model |
| DCM | 113252 | Kurtosis diffusion model |
| DCM | 113253 | Gamma distribution model |
| DCM | 113254 | Stretched exponential diffusion model |
| DCM | 113255 | Truncated Gaussian diffusion model |

Note

CID 7274 MR Diffusion Model Fitting Methods

Type: Extensible
Version: 20170413

Table CID 7274. MR Diffusion Model Fitting Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------------------------|
| DCM | 113260 | Log of ratio of two samples |
| DCM | 113261 | Least squares fit of multiple samples |
| DCM | 113265 | Levenberg–Marquardt |
| DCM | 113266 | Trust-Region |
| DCM | 113267 | Fixed-Dp |
| DCM | 113268 | Segmented-Unconstrained |
| DCM | 113269 | Segmented-Constrained |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------|
| DCM | 113270 | Bayesian-Probability |

Note

CID 7275 MR Diffusion Model Specific Methods

Type: Extensible
Version: 20170413

Table CID 7275. MR Diffusion Model Specific Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------|
| DCM | 113285 | Voxelwise selection of b-value |

Note

CID 7276 MR Diffusion Model Inputs

Type: Extensible
Version: 20170413

Table CID 7276. MR Diffusion Model Inputs

| Coding Scheme Designator | Code Value | Code Meaning | Units |
|--------------------------|------------|--------------------------------|---------------------------|
| DCM | 113240 | Source image diffusion b-value | DT (s/mm2, UCUM, "s/mm2") |

Note

CID 7277 Units of Diffusion Rate Area Over Time

Type: Extensible
Version: 20170413

Table CID 7277. Units of Diffusion Rate Area Over Time

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| UCUM | mm2/s | mm2/s |
| UCUM | um2/ms | um2/ms |
| UCUM | um2/s | um2/s |
| UCUM | 10-6.mm2/s | 10-6.mm2/s |

Note

CID 7300 Implant Materials

Type: Extensible
Version: 20101102

Table CID 7300. Implant Materials

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | F-61166 | Nickel Titanium | 261250004 | C0076736 |
| SRT | F-611FC | Gold Alloy | 256496006 | C0018027 |
| SRT | F-61207 | Stainless Steel Material | 256506002 | C0038126 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | F-61DF9 | Polymer | 412155002 | C0032521 |
| SRT | F-61202 | Carbon Fiber | 256501007 | C0108411 |

CID 7301 Intervention Types

Type: Extensible
Version: 20101102

Table CID 7301. Intervention Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | P1-14810 | Hip joint reconstruction | 119614000 | C1293219 |
| SRT | P1-14505 | Hip joint implantation | 119610009 | C1293213 |
| SRT | P1-103D3 | Resurfacing of the femoral head | 445185007 | C2919830 |
| SRT | P1-189C2 | Resurfacing of the patella | 239503002 | C0408429 |

CID 7302 Implant Templates View Orientations

Type: Extensible
Version: 20101102

Table CID 7302. Implant Templates View Orientations

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------|----------------------|------------------------|
| SRT | R-10206 | Antero-Posterior | 399348003 | C0442212 |
| SRT | R-10226 | Medio-Lateral | 399368009 | C1302345 |
| SRT | R-10228 | Lateral-Medial | 399352003 | C1302336 |

CID 7303 Implant Templates Modified View Orientations

Type: Extensible
Version: 20101102

Table CID 7303. Implant Templates Modified View Orientations

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 112300 | AP+45 |
| DCM | 112301 | AP-45 |

CID 7304 Implant Target Anatomy

Type: Extensible
Version: 20130617

Table CID 7304. Implant Target Anatomy

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | T-15750 | Ankle Joint | 70258002 | C0003087 |
| SRT | T-11501 | Cervical Spine | 122494005 | C0728985 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | T-D00F7 | Cervico-Thoracic Spine | 297171002 | C0729373 |
| SRT | T-15430 | Elbow Joint | 16953009 | C0013770 |
| SRT | T-11196 | Facial Bones | 91397008 | C0015455 |
| SRT | T-12710 | Femur | 71341001 | C0015811 |
| SRT | T-12711 | Head of Femur | 2812003 | C0015813 |
| SRT | T-D078C | Proximal Femur | 310651003 | C0588192 |
| SRT | T-12717 | Shaft of Femur | 41111004 | C0588193 |
| SRT | T-D078D | Distal Femur | 310652005 | C0588194 |
| SRT | T-1553D | Finger Joint | 182189009 | C1279142 |
| SRT | T-15710 | Hip Joint | 24136001 | C0019558 |
| SRT | T-D1213 | Jaw Region | 661005 | C0022359 |
| SRT | T-D9200 | Knee | 72696002 | C0022742 |
| SRT | T-11503 | Lumbar Spine | 122496007 | C0024091 |
| SRT | T-D0059 | Lumbo-Sacral Spine | 243898001 | C0446379 |
| SRT | T-11180 | Mandible | 91609006 | C0024687 |
| SRT | T-11170 | Maxilla | 70925003 | C0024947 |
| SRT | T-12730 | Patella | 64234005 | C0030647 |
| SRT | T-12310 | Clavicle | 51299004 | C0008913 |
| SRT | T-D2220 | Shoulder | 16982005 | C0037004 |
| SRT | T-12410 | Humerus | 85050009 | C0020164 |
| SRT | T-1240F | Proximal Humerus | 119524001 | C0588209 |
| SRT | T-12412 | Shaft of Humerus | 20760004 | C0588210 |
| SRT | T-1241F | Distal Humerus | 118495001 | C0588211 |
| SRT | T-12420 | Radius | 62413002 | C0034627 |
| SRT | T-1242A | Proximal Radius | 12881000 | C0588205 |
| SRT | T-12423 | Shaft of Radius | 47728000 | C0588208 |
| SRT | T-1242B | Distal Radius | 75129005 | C0588207 |
| SRT | T-12430 | Ulna | 23416004 | C0041600 |
| SRT | T-1243A | Proximal Ulna | 34318004 | C0588201 |
| SRT | T-12435 | Shaft of Ulna | 21133008 | C0588204 |
| SRT | T-1243B | Distal Ulna | 91238003 | C0588203 |
| SRT | T-11100 | Skull | 89546000 | C0037303 |
| SRT | T-12600 | Hand | 24097009 | C0448064 |
| SRT | T-11502 | Thoracic Spine | 122495006 | C0581269 |
| SRT | T-D00FA | Thoraco-Lumbar Spine | 297174005 | C0574026 |
| SRT | T-15460 | Wrist Joint | 74670003 | C1322271 |
| SRT | T-12375 | Pelvis | 118645006 | C0448168 |
| SRT | T-12750 | Fibula | 87342007 | C0016068 |
| SRT | T-12780 | Talus | 67453005 | C0039277 |
| SRT | T-12770 | Calcaneus | 80144004 | C0006655 |
| SRT | T-12740 | Tibia | 12611008 | C0040184 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | T-12746 | Shaft of Tibia | 52687003 | C0588199 |
| SRT | T-1274B | Distal Tibia | 64605006 | C0588200 |

Note

Consistent with other concepts in this context group that refer to specific bones or joints, the concept for Elbow has been changed from T-D8300 to T-15430 used in a prior version of this table. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.

CID 7305 Implant Planning Landmarks

Type: Extensible
Version: 20101102

Table CID 7305. Implant Planning Landmarks

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 7306 "Human Hip Implant Planning Landmarks" | | |

CID 7306 Human Hip Implant Planning Landmarks

Type: Extensible
Version: 20101102

Table CID 7306. Human Hip Implant Planning Landmarks

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------|
| DCM | 112302 | Anatomical axis of femur |
| DCM | 112303 | Acetabular Center of Rotation |
| DCM | 112304 | Femur Head Center of Rotation |

CID 7307 Implant Component Types

Type: Extensible
Version: 20101102

Table CID 7307. Implant Component Types

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 7308 "Human Hip Implant Component Types" | | |
| Include CID 7309 "Human Trauma Implant Component Types" | | |

CID 7308 Human Hip Implant Component Types

Type: Extensible
Version: 20101102

Table CID 7308. Human Hip Implant Component Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| DCM | 112305 | Acetabular Cup Shell | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| DCM | 112306 | Acetabular Cup Insert | | |
| DCM | 112307 | Acetabular Cup Monoblock | | |
| SRT | A-04459 | Femoral Head Prosthesis | 304121006 | C0015803 |
| DCM | 112308 | Femoral Head Ball Component | | |
| DCM | 112309 | Femoral Head Cone Taper Component | | |
| DCM | 112310 | Femoral Stem | | |
| DCM | 112311 | Femoral Stem Distal Component | | |
| DCM | 112312 | Femoral Stem Proximal Component | | |
| DCM | 112313 | Femoral Stem Component | | |
| DCM | 112314 | Neck Component | | |
| DCM | 112315 | Monoblock Stem | | |
| DCM | 112325 | Distal Centralizer | | |
| DCM | 112316 | Prosthetic Shaft Augment | | |
| DCM | 112317 | Femoral Head Resurfacing Component | | |

CID 7309 Human Trauma Implant Component Types

Type: Extensible
Version: 20101102

Table CID 7309. Human Trauma Implant Component Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | A-12030 | Screw | 68183006 | C0005975 |
| SRT | A-12010 | Bone Plate | 271003 | C0005971 |
| SRT | A-12018 | DHS Plate | 257327003 | C0441261 |
| SRT | A-12020 | Bone Nail | 63289001 | C0336579 |

CID 7310 Implant Fixation Method

Type: Extensible
Version: 20101102

Table CID 7310. Implant Fixation Method

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | P0-02126 | Anchoring | 129380009 | C1292829 |
| SRT | P0-02125 | Fusion | 129379006 | C1283075 |
| SRT | P0-021D6 | Gluing | 360038009 | C1283084 |
| SRT | P1-1099B | Internal fixation using internal fixator system | 257837004 | C0441561 |
| SRT | P1-10999 | Internal fixation using plate | 257835007 | C0441559 |
| SRT | P1-10998 | Internal fixation using screw | 257834006 | C0441558 |
| SRT | P1-10997 | Internal fixation using staple | 257833000 | C0441557 |
| SRT | R-41C37 | Cemented component fixation | 257771002 | C0441496 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | R-42808 | Uncemented component fixation | 304367000 | C0582264 |
| SRT | P1-08080 | Repair by nailing | 35860002 | C0021885 |
| DCM | 112318 | Pinning | | |
| DCM | 112319 | Sewing | | |
| DCM | 112320 | Bolting | | |
| DCM | 112321 | Wedging | | |

CID 7320 Planning Methods

Type: Extensible
Version: 20101102

Table CID 7320. Planning Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 112340 | Generic 2D Planning |
| DCM | 112341 | Generic 3D Planning |
| DCM | 112342 | Generic Planning for Hip Replacement |
| DCM | 112343 | Generic Planning for Knee Replacement |
| DCM | 112344 | Müller Method Planning for Hip Replacement |

CID 7445 Device Participating Roles

Type: Extensible
Version: 20120406

Table CID 7445. Device Participating Roles

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------|
| DCM | 113859 | Irradiating Device |
| DCM | 121097 | Recording |
| DCM | 113942 | X-Ray Reading Device |

CID 7449 Reader Specialty

Type: Extensible
Version: 20160601

Table CID 7449. Reader Specialty

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| DCM | 128006 | Abdominal Imaging Specialty | | |
| DCM | 128007 | Cardiac Imaging Specialty | | |
| DCM | 128008 | Head and Neck Imaging Specialty | | |
| DCM | 128009 | Musculoskeletal Imaging Specialty | | |
| DCM | 128010 | Neurology Specialty | | |
| DCM | 128011 | Neuroradiology Imaging Specialty | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| DCM | 128012 | OB/Gyn Imaging Specialty | | |
| DCM | 128013 | Oncologic Imaging Specialty | | |
| DCM | 128014 | Oncology Specialty | | |
| DCM | 128015 | Thoracic Imaging Specialty | | |
| DCM | 128016 | Pediatric Imaging Specialty | | |
| DCM | 128017 | Vascular Imaging Specialty | | |

CID 7450 Person Roles

Type: Extensible
Version: 20040112

Table CID 7450. Person Roles

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|-------------------------|----------------------|------------------------|
| DCM | 121025 | Patient | | |
| SRT | J-00552 | Healthcare professional | 223366009 | C1704312 |
| SRT | S-11090 | Friend | 113163005 | C0079382 |
| Include CID 7451 "Family Member" | | | | |
| Include CID 7452 "Organizational Roles" | | | | |

CID 7451 Family Member

Type: Extensible
Version: 20040112

Table CID 7451. Family Member

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | S-10121 | Natural mother | 65656005 | C0337486 |
| SRT | S-10131 | Natural father | 9947008 | C0337494 |
| SRT | S-10151 | Natural sister | 73678001 | C0337515 |
| SRT | S-10161 | Natural brother | 60614009 | C0337528 |
| SRT | S-101A1 | Aunt | 25211005 | C0337576 |
| SRT | S-101A2 | Uncle | 38048003 | C0337577 |
| SRT | S-10154 | Half-sister | 2272004 | C0337518 |
| SRT | S-10164 | Half-brother | 45929001 | C0337531 |
| SRT | S-10115 | Natural grand-mother | 17945006 | C0337476 |
| SRT | S-10116 | Natural grand-father | 62296006 | C0337477 |
| SRT | S-10181 | Natural daughter | 83420006 | C0337552 |
| SRT | S-10191 | Natural son | 113160008 | C0337564 |
| SRT | S-101A9 | Female first cousin | 270002 | C0337584 |
| SRT | S-101AA | Male first cousin | 11993008 | C0337585 |

CID 7452 Organizational Roles

Type: Extensible
Version: 20150602

Table CID 7452. Organizational Roles

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | J-0016E | Medical Practitioner | 158965000 | C1306754 |
| SRT | J-004E8 | Physician | 309343006 | C0031831 |
| SRT | J-07100 | Nurse | 106292003 | C0028661 |
| SRT | J-00187 | Radiologic Technologist | 159016003 | C0402007 |
| SRT | J-00187 | Radiographer | 159016003 | C0402007 |
| UMLS | C1144859 | Intern | | C1144859 |
| SRT | J-005E6 | Resident | 405277009 | C1320928 |
| SRT | J-00172 | Registrar | 158971006 | C0401974 |
| DCM | 121088 | Fellow | | |
| SRT | J-005E8 | Attending | 405279007 | C1320929 |
| SRT | J-0050A | Consultant | 309390008 | C0586911 |
| UMLS | C1441532 | Consulting Physician | | C1441532 |
| SRT | J-0714A | Scrub nurse | 415506007 | C1531952 |
| SRT | J-00556 | Surgeon | 304292004 | C0582175 |
| DCM | 121092 | Sonologist | | |
| UMLS | C1954848 | Sonographer | | C1954848 |
| UMLS | C2985483 | Radiation Physicist | | C2985483 |
| UMLS | C1708969 | Medical Physicist | | C1708969 |

Note

1. The distinction between a "physician" and a "surgeon" and a "medical practitioner" is subject to regional variation. In the US, "physician" is often equated with "medical practitioner", and a "surgeon" is considered to be a "physician". In the UK, a "surgeon" is a "medical practitioner" but is not a "physician". In SNOMED, "physician" and "surgeon" are distinct siblings with no direct relationship, and both are children of "medical practitioner". It is recommended that "medical practitioner" be used rather than "physician" when there is uncertainty over whether the person is or is not a "surgeon".
2. There is no distinction between a "radiographer" and a "radiologic technologist", hence the same SNOMED concept is used for both, and "radiologic technologist" is provided as a synonym for use in the US.
3. In the US, the medical practitioner not in training responsible for the care of a hospital patient is referred to as an "attending". In the UK they are referred to as a "consultant". Though these two concepts are essentially the same, they are separate concepts in SNOMED, which defines no explicit relationship between them.
4. A distinction is made between a Consultant and a Consulting Physician since these are separate concepts in UMLS. A Consultant is defined as "individuals referred to for expert or professional advice or services" (MSH) whereas a Consulting Physician is defined as "a physician that has expertise in a specific medical discipline that can offer expertise or advice to other physicians and healthcare providers" (from NCI/PT). In UK practice a "consultant" is always a medical practitioner. In SNOMED, (J-0050A, SRT, "Consultant") is actually described as "Hospital Consultant" and is a child of "Medical practitioner grade (occupation)".

CID 7453 Performing Roles

Type: Extensible

Version: 20141110

Table CID 7453. Performing Roles

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| DCM | 121094 | Performing | | |
| UMLS | C1709880 | Referring | | C1709880 |
| DCM | 121096 | Requesting | | |
| DCM | 121097 | Recording | | |
| DCM | 121098 | Verifying | | |
| DCM | 121099 | Assisting | | |
| SRT | J-0714B | Circulating Nurse | 413854007 | C1531633 |
| DCM | 121101 | Standby | | |
| DCM | 113850 | Irradiation Authorizing | | |
| DCM | 113851 | Irradiation Administering | | |

CID 7454 Animal Taxonomic Rank Values

Type: Extensible
Version: 20160211

Table CID 7454. Animal Taxonomic Rank Values

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | ITIS TSN |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|----------|
| SRT | L-85003 | homo sapiens | 337915000 | C0086418 | 180092 |
| SRT | L-000F9 | Felis | 388626009 | C0524517 | 180586 |
| SRT | L-00376 | Felis catus (domestic cat) | 448169003 | C0007450 | 183798 |
| SRT | L-000A9 | Equus | 388445009 | C1265527 | 180689 |
| SRT | L-8A102 | Equus caballus (domestic horse) | 35354009 | C0019944 | 180691 |
| SRT | L-8C3FD | Ovis | 388254009 | C0036945 | 180709 |
| SRT | L-8C336 | Ovis aries (domestic sheep) | 125099002 | C1123019 | 552475 |
| SRT | L-8B1FB | Sus | 388393002 | C1265533 | 180721 |
| SRT | L-8B100 | Sus scrofa | 78678003 | C1135183 | 180722 |
| SRT | L-8C3FB | Capra | 388249000 | C1265549 | 180714 |
| SRT | L-8C306 | Capra hircus (domestic goat) | 125097000 | C0018019 | 180715 |
| SRT | L-881FC | Canis | 388490000 | C0524516 | 180595 |
| SRT | L-88121 | Canis lupus | 36855005 | C1510418 | 180596 |
| SRT | L-88124 | Canis lupus familiaris (domestic dog) | 448771007 | C0012984 | 726821 |
| SRT | L-8BA18 | Bos | 388168008 | C1265540 | 183837 |
| SRT | L-8B9F9 | Bovinae | 107007004 | C0325235 | 552332 |
| SRT | L-8B941 | Bos taurus (domestic cow) | 34618005 | C1140701 | 183838 |
| SRT | L-87830 | Mus genus | 447482001 | C0026809 | 180365 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | ITIS TSN |
|--------------------------|------------|---|----------------------|------------------------|----------|
| SRT | L-87831 | Mus musculus (House mouse) | 447612001 | C0025914 | 180366 |
| ITIS_TSN | 180278 | Peromyscus leucopus (American white-footed mouse) | | | 180278 |
| ITIS_TSN | 180276 | Peromyscus maniculatus (Deer mouse) | | | 180276 |
| SRT | L-877FB | Rattus | 371564000 | C0034721 | 180361 |
| SRT | L-877FC | Rattus norvegicus (common rat) | 371565004 | C0034693 | 180363 |
| ITIS_TSN | 180346 | Sigmodon genus (cotton rat) | | C0037070 | 180346 |
| SRT | L-87A02 | Cavia porcellus (domestic guinea pig) | 125076001 | C0999699 | 584713 |
| SRT | L-88423 | Mustela putorius furo (ferret) | 449310008 | C0015859 | 727313 |
| SRT | L-86B02 | Oryctolagus cuniculus (European rabbit) | 36571002 | C0324889 | 180129 |
| SRT | L-001DE | Callithrix jacchus (common marmoset) | 406733009 | C0006765 | 572915 |

Note

Codes that are now defined in SNOMED as "ambiguous" (conceptstatus = 4) were previously included in this table, but have been retired and replaced with unambiguous alternatives (e.g., (L-80700, SRT, "Canine species") has been replaced with genus (L-881FC, SRT, "Canis"), species (L-88121, SRT, "Canis lupus") and subspecies (L-88124, SRT, "Canis lupus familiaris"). Note that in UMLS, there is a lack of distinction between "Canis familiaris" and "Canis lupus familiaris". The replaced codes are (L-85B00, SRT, "homo sapiens"), (L-80A00, SRT, "Feline species"), (L-80400, SRT, "Equine species"), (L-80300, SRT, "Ovine species"), (L-80500, SRT, "Porcine species"), (L-80200, SRT, "Caprine species"), (L-80700, SRT, "Canine species") and (L-80100, SRT, "Bovine species").

CID 7455 Sex

This Context Group includes terms for the finding of sex of a subject for clinical purposes, such as selection of sex-based growth metrics.

Type: Non-Extensible
Version: 20040112

Table CID 7455. Sex

| Coding Scheme Designator | Code Value | Code Meaning | Patient's Sex (0010,0040) Equivalent |
|--------------------------|------------|----------------------------|--------------------------------------|
| DCM | M | Male | M |
| DCM | F | Female | F |
| DCM | U | Unknown sex | |
| DCM | MP | Male Pseudohermaphrodite | |
| DCM | FP | Female Pseudohermaphrodite | |
| DCM | H | Hermaphrodite | |
| DCM | MC | Male changed to Female | |

| Coding Scheme Designator | Code Value | Code Meaning | Patient's Sex (0010,0040) Equivalent |
|--------------------------|------------|------------------------|--------------------------------------|
| DCM | FC | Female changed to Male | |
| DCM | 121104 | Ambiguous sex | |
| DCM | 121102 | Other sex | |
| DCM | 121103 | Undetermined sex | O |

Note

1. These terms are distinct from the gender of a subject for administrative purposes, although the default value for clinical sex is often based on the administrative gender (e.g., see TID 1007 "Subject Context, Patient"). The administrative value "O" from Patient's Sex (0010,0040) maps by default to "undetermined" for clinical purposes.
2. This Context Group in a prior edition of the Standard included codes improperly attributed to ISO 5218.
3. These terms are derived from the terminology and codes for sex in ASTM E1633-02a "Standard Specification for Coded Values Used in the Electronic Health Record."

CID 7456 Units of Measure for Age

Type: Non-Extensible
Version: 20020904

Table CID 7456. Units of Measure for Age

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| UCUM | a | year |
| UCUM | mo | month |
| UCUM | wk | week |
| UCUM | d | day |
| UCUM | h | hour |
| UCUM | min | minute |

CID 7457 Sex - Male Female or Both

Type: Extensible
Version: 20151110

Table CID 7457. Sex - Male Female or Both

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| DCM | M | Male | | |
| DCM | F | Female | | |
| DCM | 127146 | Mixed sex | | |

CID 7460 Units of Linear Measurement

Type: Extensible
Version: 20020904

Table CID 7460. Units of Linear Measurement

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| UCUM | cm | centimeter |
| UCUM | mm | millimeter |
| UCUM | um | micrometer |

CID 7461 Units of Area Measurement

Type: Extensible
Version: 20020904

Table CID 7461. Units of Area Measurement

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------|
| UCUM | cm2 | square centimeter |
| UCUM | mm2 | square millimeter |
| UCUM | um2 | square micrometer |

CID 7462 Units of Volume Measurement

Type: Extensible
Version: 20020904

Table CID 7462. Units of Volume Measurement

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------|
| UCUM | dm3 | cubic decimeter |
| UCUM | cm3 | cubic centimeter |
| UCUM | mm3 | cubic millimeter |
| UCUM | um3 | cubic micrometer |

Note

A "cubic decimeter" is a "liter", just as a "cubic centimeter" is a "milliliter" (of water). Though there are specific units "l" and "ml" in UCUM, only one form is included here, since this context group is intended for use for volume measurements of a physical object derived from one or more images, rather than of fluid volume.

CID 7464 General Region of Interest Measurement Modifiers

This context group contains modifiers of measurements of ROIs.

Type: Extensible
Version: 20121101

Table CID 7464. General Region of Interest Measurement Modifiers

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---------------------------------|------------|--------------------|----------------------|------------------------|
| Include CID 3488 "Min/Max/Mean" | | | | |
| SRT | R-10047 | Standard Deviation | 386136009 | C0871420 |
| SRT | R-40507 | Total | 255619001 | C0439810 |
| SRT | R-00319 | Median | 373099004 | C1298795 |
| SRT | R-0032E | Mode | 373100007 | C1298796 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| DCM | 126031 | Peak Value Within ROI | | |
| UMLS | C0681921 | Coefficient of Variance | | C0681921 |
| DCM | 126051 | Skewness | | |
| DCM | 126052 | Kurtosis | | |
| UMLS | C1711260 | Variance | | C1711260 |
| UMLS | C2347976 | Root Mean Square | | C2347976 |

CID 7465 Measurements Derived From Multiple ROI Measurements

Type: Extensible

Version: 20121101

Table CID 7465. Measurements Derived From Multiple ROI Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| Include CID 226 "Population Statistical Descriptors" | | |
| Include CID 227 "Sample Statistical Descriptors" | | |

CID 7466 PET Region of Interest Measurements

Type: Extensible

Version: 20141110

Table CID 7466. PET Region of Interest Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 126032 | Metabolic Volume |
| DCM | 126033 | Total Lesion Glycolysis |
| DCM | 126034 | Glycolysis |
| DCM | 126035 | Total Lesion Proliferation |
| DCM | 126036 | Proliferative Activity |
| DCM | 126037 | Standardized Added Metabolic Activity |
| DCM | 126038 | Standardized Added Metabolic Activity Background |
| DCM | 126039 | Lesion to Background SUV Ratio |
| DCM | 126040 | Background for Lesion to Background SUV Ratio |

CID 7467 Grey Level Co-occurrence Matrix Measurements

Type: Extensible

Version: 20141110

Table CID 7467. Grey Level Co-occurrence Matrix Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|-------------------|-----------------|
| DCM | 126060 | Entropy of GLCM |
| | 126060 | |
| DCM | 126061 | Energy of GLCM |
| | 126061 | |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|-------------------|-----------------------|
| DCM | 126062 | Homogeneity of GLCM |
| | 126062 | |
| DCM | 126063 | Contrast of GLCM |
| | 126063 | |
| DCM | 126064 | Dissimilarity of GLCM |
| | 126064 | |
| DCM | 126065 | ASM of GLCM |
| | 126065 | |
| DCM | 126066 | Correlation of GLCM |
| | 126066 | |

CID 7468 Texture Measurements

Type: Extensible
Version: 20141110

Table CID 7468. Texture Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--|-------------------|-------------------|
| <i>Include CID 7467 "Grey Level Co-occurrence Matrix Measurements"</i> | | |
| DCM | 126050 | Fractal Dimension |
| | 126050 | |

CID 7469 Generic Intensity and Size Measurements

Type: Extensible
Version: 20141110

Table CID 7469. Generic Intensity and Size Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 7180 "Abstract Multi-dimensional Image Model Component Semantics"</i> | | |
| <i>Include CID 7470 "Linear Measurements"</i> | | |
| <i>Include CID 7471 "Area Measurements"</i> | | |
| <i>Include CID 7472 "Volume Measurements"</i> | | |

CID 7470 Linear Measurements

Type: Extensible
Version: 20160314

Table CID 7470. Linear Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-D7FE | Length | 410668003 | C1444754 |
| DCM | 121211 | Path length | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| DCM | 121206 | Distance | | |
| SRT | G-A220 | Width | 103355008 | C0487742 |
| SRT | G-D785 | Depth | 131197000 | C0205125 |
| SRT | M-02550 | Diameter | 81827009 | C1301886 |
| SRT | G-A185 | Long Axis | 103339001 | C0522487 |
| SRT | G-A186 | Short Axis | 103340004 | C0522488 |
| SRT | G-A193 | Major Axis | 131187009 | C1295723 |
| SRT | G-A194 | Minor Axis | 131188004 | C1295724 |
| SRT | G-A195 | Perpendicular Axis | 131189007 | C1295725 |
| SRT | G-A196 | Radius | 131190003 | C1306504 |
| SRT | G-A197 | Perimeter | 131191004 | C1295726 |
| SRT | M-02560 | Circumference | 74551000 | C0332520 |
| SRT | G-A198 | Diameter of circumscribed circle | 131192006 | C1295727 |
| DCM | 121207 | Height | | |

CID 7471 Area Measurements

Type: Extensible
Version: 20020904

Table CID 7471. Area Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | G-A166 | Area | 42798000 | C0205146 |
| SRT | G-A16A | Area of defined region | 131184002 | C1295720 |

CID 7472 Volume Measurements

Type: Extensible
Version: 20020904

Table CID 7472. Volume Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | G-D705 | Volume | 118565006 | C0449468 |
| DCM | 121216 | Volume estimated from single 2D region | | |
| DCM | 121218 | Volume estimated from two non-coplanar 2D regions | | |
| DCM | 121217 | Volume estimated from three or more non-coplanar 2D regions | | |
| DCM | 121222 | Volume of sphere | | |
| DCM | 121221 | Volume of ellipsoid | | |
| DCM | 121220 | Volume of circumscribed sphere | | |
| DCM | 121219 | Volume of bounding three dimensional region | | |

CID 7473 General Area Calculation Methods

Type: Extensible
Version: 20070827

Table CID 7473. General Area Calculation Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------------|
| DCM | 122501 | Area of closed irregular polygon |
| DCM | 122502 | Area of a closed NURBS |

CID 7474 General Volume Calculation Methods

Type: Extensible
Version: 20141110

Table CID 7474. General Volume Calculation Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 122503 | Integration of sum of closed areas on contiguous slices |
| DCM | 126030 | Sum of segmented voxel volumes |

CID 7480 Breed

Type: Extensible
Version: 20160314

Table CID 7480. Breed

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------------------------|----------------------|------------------------|
| <i>Include CID 7486 "Mixed Breeds"</i> | | | | |
| SRT | L-80139 | Hereford cattle superbreed | 125074003 | C0324066 |
| SRT | L-8C338 | Merino sheep superbreed | 125101009 | C1265459 |
| SRT | L-80121 | Africander cattle breed | 131426006 | C1269178 |
| SRT | L-80122 | Ankole cattle breed | 131427002 | C1295943 |
| SRT | L-80123 | Ankole-Watusi cattle breed | 131428007 | C1295944 |
| SRT | L-80124 | Baladicattle cattle breed | 131429004 | C1295945 |
| SRT | L-80125 | Belmont Red cattle breed | 131430009 | C1295946 |
| SRT | L-80126 | Bonsmara cattle breed | 131431008 | C1295947 |
| SRT | L-80127 | Damietta cattle breed | 131432001 | C1295948 |
| SRT | L-80128 | Horro cattle breed | 131433006 | C1295949 |
| SRT | L-80129 | Kuri cattle breed | 131434000 | C1295950 |
| SRT | L-8012A | Nguni cattle breed | 131435004 | C1295951 |
| SRT | L-8012B | Philippine Native cattle breed | 131436003 | C1269179 |
| SRT | L-8012C | Romagnola cattle breed | 131437007 | C1295952 |
| SRT | L-8012E | Sanhe cattle breed | 131438002 | C1295953 |
| SRT | L-8012F | Tswana cattle breed | 131439005 | C1295954 |
| SRT | L-80138 | Tuli cattle breed | 131440007 | C1295955 |
| SRT | L-8013A | Aliab Dinka cattle breed | 131441006 | C1295956 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | L-8013B | Alur cattle breed | 131442004 | C1295957 |
| SRT | L-8013C | Ankina cattle breed | 131443009 | C1295958 |
| SRT | L-8013D | Apulian Podolian cattle breed | 131444003 | C1295959 |
| SRT | L-8013E | Arado cattle breed | 131445002 | C1269180 |
| SRT | L-8013F | Aweil Dinka cattle breed | 131446001 | C1295960 |
| SRT | L-8014C | Bahima cattle breed | 131447005 | C1295961 |
| SRT | L-8014D | Bapedi cattle breed | 131448000 | C1295962 |
| SRT | L-8014E | Baria (Vietnam/Madagascar) cattle breed | 131449008 | C1295963 |
| SRT | L-8014F | Barotse cattle breed | 131450008 | C1295964 |
| SRT | L-8015A | Barra do Cuanzo cattle breed | 131451007 | C1295965 |
| SRT | L-8015B | Bashi cattle breed | 131452000 | C1295966 |
| SRT | L-8015C | Basuto cattle breed | 131453005 | C1295967 |
| SRT | L-8015D | Batangas cattle breed | 131454004 | C1295968 |
| SRT | L-8015E | Bavenda cattle breed | 131455003 | C1295969 |
| SRT | L-8015F | Beja cattle breed | 131456002 | C1295970 |
| SRT | L-80161 | Calabrian cattle breed | 131457006 | C1295971 |
| SRT | L-80162 | Blonde-du Cap Bon cattle breed | 131458001 | C1295972 |
| SRT | L-80163 | Cham-Doc cattle breed | 131459009 | C1295973 |
| SRT | L-80164 | Chernigov cattle breed | 131460004 | C1295974 |
| SRT | L-80165 | Chino Santandereano cattle breed | 131461000 | C1295975 |
| SRT | L-80166 | Cinisara cattle breed | 131462007 | C1295976 |
| SRT | L-80167 | Cuprem Hybrid cattle breed | 131463002 | C1295977 |
| SRT | L-80168 | Dabieshan cattle breed | 131464008 | C1295978 |
| SRT | L-80169 | Damara cattle breed | 131465009 | C1295979 |
| SRT | L-8016A | Danakil cattle breed | 131466005 | C1295980 |
| SRT | L-8016B | Dnieper cattle breed | 131467001 | C1295981 |
| SRT | L-8016C | Doayo cattle breed | 131468006 | C1295982 |
| SRT | L-8016D | Eastern Nuer cattle breed | 131469003 | C1269181 |
| SRT | L-8016E | Egyptian cattle breed | 131470002 | C1295983 |
| SRT | L-8016F | Fogera cattle breed | 131471003 | C1295984 |
| SRT | L-80177 | Garfagnina cattle breed | 131472005 | C1295985 |
| SRT | L-80178 | Grati cattle breed | 131473000 | C1295986 |
| SRT | L-80179 | Gaunling cattle breed | 131474006 | C1295987 |
| SRT | L-8017A | Halhin Gol cattle breed | 131475007 | C1295988 |
| SRT | L-8017B | Holmonger cattle breed | 131476008 | C1295989 |
| SRT | L-8017C | Ilocos cattle breed | 131477004 | C1295990 |
| SRT | L-8017D | Iloilo cattle breed | 131478009 | C1295991 |
| SRT | L-8017E | Inkuku cattle breed | 131479001 | C1295992 |
| SRT | L-8017F | Iskar cattle breed | 131480003 | C1295993 |
| SRT | L-80180 | Istrian cattle breed | 131481004 | C1295994 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | L-80181 | Javanese Ongole cattle breed | 131482006 | C1269182 |
| SRT | L-80182 | Javanese Zebu cattle breed | 131483001 | C1269183 |
| SRT | L-80183 | Jinnan cattle breed | 131484007 | C1295995 |
| SRT | L-80184 | Kalmyk cattle breed | 131485008 | C1295996 |
| SRT | L-80185 | Kaokoveld cattle breed | 131486009 | C1295997 |
| SRT | L-80186 | Kazakh Whitehead cattle breed | 131487000 | C1295998 |
| SRT | L-80187 | Kedah-Kelantan cattle breed | 131488005 | C1295999 |
| SRT | L-80188 | Kigezi cattle breed | 131489002 | C1296000 |
| SRT | L-80189 | Kisantu cattle breed | 131490006 | C1296001 |
| SRT | L-8018A | Kolubara cattle breed | 131491005 | C1296002 |
| SRT | L-8018B | Kurgan cattle breed | 131492003 | C1296003 |
| SRT | L-8018C | Kyoga cattle breed | 131493008 | C1296004 |
| SRT | L-8018D | Lucanian cattle breed | 131494002 | C1296005 |
| SRT | L-8018E | Maremma cattle breed | 131495001 | C1296006 |
| SRT | L-8018F | Marianas cattle breed | 131496000 | C1296007 |
| SRT | L-80190 | Maryuti cattle breed | 131497009 | C1296008 |
| SRT | L-80191 | Mauritius Creole cattle breed | 131498004 | C1296009 |
| SRT | L-80192 | Menufi cattle breed | 131499007 | C1296010 |
| SRT | L-80193 | Mezzalina cattle breed | 131500003 | C1296011 |
| SRT | L-80194 | Modicana cattle breed | 131501004 | C1296012 |
| SRT | L-80195 | Moi cattle breed | 131502006 | C1296013 |
| SRT | L-80196 | Nama cattle breed | 131503001 | C1296014 |
| SRT | L-80197 | Nanyang cattle breed | 131504007 | C1296015 |
| SRT | L-80198 | N'Dama Sanga cattle breed | 131505008 | C1296016 |
| SRT | L-80199 | Nganda cattle breed | 131506009 | C1296017 |
| SRT | L-8019A | Nilotic Sanga cattle breed | 131507000 | C1296018 |
| SRT | L-8019B | Nkone cattle breed | 131508005 | C1296019 |
| SRT | L-8019C | North Malawi Angoni cattle breed | 131509002 | C1269184 |
| SRT | L-8019D | Nuer cattle breed | 131510007 | C1296020 |
| SRT | L-8019E | Nuras cattle breed | 131511006 | C1296021 |
| SRT | L-8019F | Nyoro cattle breed | 131512004 | C1296022 |
| SRT | L-801A0 | Ovambo cattle breed | 131513009 | C1296023 |
| SRT | L-801A1 | Pantelleria cattle breed | 131514003 | C1296024 |
| SRT | L-801A2 | Pinzhou cattle breed | 131515002 | C1296025 |
| SRT | L-801A3 | Porto Amboim cattle breed | 131516001 | C1296026 |
| SRT | L-801A4 | Posavina cattle breed | 131517005 | C1296027 |
| SRT | L-801A5 | Romanian Steppe cattle breed | 131518000 | C1269185 |
| SRT | L-801A6 | Saidi cattle breed | 131519008 | C1296028 |
| SRT | L-801A7 | Sardo-Modicana cattle breed | 131520002 | C1296029 |
| SRT | L-801A8 | Sengologa cattle breed | 131521003 | C1296030 |
| SRT | L-801A9 | Serere cattle breed | 131522005 | C1296031 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|
| SRT | L-801AA | Seshaga cattle breed | 131523000 | C1296032 |
| SRT | L-801AB | Siberian Black Pied cattle breed | 131524006 | C1269186 |
| SRT | L-801AC | Socotra cattle breed | 131525007 | C1296033 |
| SRT | L-801AD | Southern Tswana cattle breed | 131526008 | C1269187 |
| SRT | L-801AE | Spreca cattle breed | 131527004 | C1296034 |
| SRT | L-801AF | Sunkuma cattle breed | 131528009 | C1296035 |
| SRT | L-801B0 | Taiwan Zebu cattle breed | 131529001 | C1269188 |
| SRT | L-801B1 | Thai cattle breed | 131530006 | C1296036 |
| SRT | L-801B2 | Thailand Fighting Zebu cattle breed | 131531005 | C1269189 |
| SRT | L-801B3 | Thanh-Hoa cattle breed | 131532003 | C1296037 |
| SRT | L-801B4 | Tibetan cattle breed | 131533008 | C1296038 |
| SRT | L-801B5 | Tonga cattle breed | 131534002 | C1296039 |
| SRT | L-801B6 | Toro cattle breed | 131535001 | C1269190 |
| SRT | L-801B7 | Tuni cattle breed | 131536000 | C1296040 |
| SRT | L-801B8 | Turkish Gray Steppe cattle breed | 131537009 | C1269191 |
| SRT | L-801B9 | Tuy-Hoa cattle breed | 131538004 | C1296041 |
| SRT | L-801BA | Ujumqin cattle breed | 131539007 | C1296042 |
| SRT | L-801BB | Abigar cattle breed | 131540009 | C1296043 |
| SRT | L-801BC | Africangnus cattle breed | 131541008 | C1269101 |
| SRT | L-801BD | Agerolese cattle breed | 131542001 | C1269102 |
| SRT | L-801BE | Albese cattle breed | 131543006 | C1269103 |
| SRT | L-801BF | Ukrainian Gray cattle breed | 131544000 | C1269104 |
| SRT | L-801C0 | Vietnamese Yellow cattle breed | 131545004 | C1269105 |
| SRT | L-801C1 | Watusi (USA) cattle breed | 131546003 | C1296044 |
| SRT | L-801C2 | Wenshan cattle breed | 131547007 | C1296045 |
| SRT | L-801C3 | Yakut cattle breed | 131548002 | C1296046 |
| SRT | L-801C4 | Yunnan Zebu cattle breed | 131549005 | C1269106 |
| SRT | L-801C5 | Zambia Angoni cattle breed | 131550005 | C1269107 |
| SRT | L-801C6 | Drakensberger cattle breed | 131551009 | C1296047 |
| SRT | L-801C7 | Modicana lowland cattle breed | 131552002 | C1269108 |
| SRT | L-801C8 | Taiwan Yellow cattle breed | 131553007 | C1269109 |
| SRT | L-801C9 | Menggu cattle breed | 131554001 | C1296048 |
| SRT | L-801CA | Albères cattlebreed | 131555000 | C1321436 |
| SRT | L-801CB | Alentejana cattlebreed | 131556004 | C1296049 |
| SRT | L-801CC | American White Park cattle breed | 131557008 | C1269110 |
| SRT | L-801CD | Amerifaxcattle breed | 131558003 | C1296050 |
| SRT | L-801CE | Anatolian Black cattle breed | 131559006 | C1269111 |
| SRT | L-801CF | Andalusian Black cattle breed | 131560001 | C1269112 |
| SRT | L-801D0 | Andalusian Gray cattle breed | 131561002 | C1269113 |
| SRT | L-801D1 | Angeln cattle breed | 131562009 | C1296051 |
| SRT | L-801D2 | Asturian Mountain cattle breed | 131563004 | C1269114 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | L-801D3 | Asturian Valley cattle breed | 131564005 | C1269115 |
| SRT | L-801D4 | Aubrac cattle breed | 131565006 | C1296052 |
| SRT | L-801D5 | Aulie-Ata cattle breed | 131566007 | C1296053 |
| SRT | L-801D6 | Australian Lowline cattle breed | 131567003 | C1269116 |
| SRT | L-801D7 | Barzona cattle breed | 131568008 | C1296054 |
| SRT | L-801D8 | Bazadais cattle breed | 131569000 | C1296055 |
| SRT | L-801D9 | Beefmaker cattle breed | 131570004 | C1269117 |
| SRT | L-801DA | Belarus Red cattle breed | 131571000 | C1269118 |
| SRT | L-801DB | Belgian Blue cattle breed | 131572007 | C1269119 |
| SRT | L-801DC | Belgian Red cattle breed | 131573002 | C1269120 |
| SRT | L-801DD | Belmont Adaptaur cattle breed | 131574008 | C1269121 |
| SRT | L-801DE | Berrendas cattle breed | 131575009 | C1269122 |
| SRT | L-801DF | Blacksided Trondheim and Norland cattle breed | 131576005 | C1269123 |
| SRT | L-801E0 | Blanco Orejinegro cattle breed | 131577001 | C1296056 |
| SRT | L-801E1 | Braunvieh cattle breed | 131578006 | C1296057 |
| SRT | L-801E2 | British White cattle breed | 131579003 | C1269124 |
| SRT | L-801E3 | Cachena cattle breed | 131580000 | C1296058 |
| SRT | L-801E4 | Canary Island cattle breed | 131581001 | C1269125 |
| SRT | L-801E5 | Carinthian Blond cattle breed | 131582008 | C1269126 |
| SRT | L-801E6 | Caucasian cattle breed | 131583003 | C1269127 |
| SRT | L-801E7 | Charolais cattle breed | 131584009 | C1296059 |
| SRT | L-801EA | Chinese Black-and-White cattle breed | 131585005 | C1269128 |
| SRT | L-801EB | Corriente cattle breed | 131586006 | C1269129 |
| SRT | L-801EC | Costeño con Cuernos cattle breed | 131587002 | C1321437 |
| SRT | L-801ED | Damascus cattle breed | 131588007 | C1269130 |
| SRT | L-801EE | Danish Red cattle breed | 131589004 | C1269131 |
| SRT | L-801EF | Devon cattle breed | 131590008 | C0175926 |
| SRT | L-801F0 | Dølafe cattle breed | 131591007 | C1321438 |
| SRT | L-801F1 | Dutch Belted cattle breed | 131592000 | C1269132 |
| SRT | L-801F2 | Dutch Friesian cattle breed | 131593005 | C1269133 |
| SRT | L-801F3 | English Longhorn cattle breed | 131594004 | C1269134 |
| SRT | L-801F4 | Estonian Red cattle breed | 131595003 | C1269135 |
| SRT | L-801F5 | Evolène cattle breed | 131596002 | C1321439 |
| SRT | L-801F6 | Fighting Bull cattle breed | 131597006 | C1269136 |
| SRT | L-801F7 | Fjall cattle breed | 131598001 | C1296060 |
| SRT | L-801F8 | Florida Cracker/Pineywoods cattle breed | 131599009 | C1269137 |
| SRT | L-801F9 | Galician Blond cattle breed | 131600007 | C1269138 |
| SRT | L-801FA | Gascon cattle breed | 131601006 | C1269139 |
| SRT | L-801FB | German Red Pied cattle breed | 131602004 | C1269140 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-801FC | Glan cattle breed | 131603009 | C1296061 |
| SRT | L-801FD | Gloucester cattle breed | 131604003 | C1296062 |
| SRT | L-801FE | Groningen Whiteheaded cattle breed | 131605002 | C1296063 |
| SRT | L-801FF | Hartón cattle breed | 131606001 | C1321440 |
| SRT | L-8031A | Bündner Oberland sheep breed | 131699001 | C1321446 |
| SRT | L-8031B | British Milk Sheep breed | 131700000 | C1296127 |
| SRT | L-8031C | Brillenschaf sheep breed | 131701001 | C1296128 |
| SRT | L-8031D | Brecknock Hill Cheviot sheep breed | 131702008 | C1296129 |
| SRT | L-8031E | Cholistani sheep breed | 131703003 | C1296130 |
| SRT | L-8031F | Bibrik sheep breed | 131704009 | C1296131 |
| SRT | L-8032A | Columbia sheep breed | 131705005 | C1296132 |
| SRT | L-8032B | Black Welsh Mountain Sheep breed | 131706006 | C1269165 |
| SRT | L-8032C | Blackhead Persian sheep breed | 131707002 | C1269166 |
| SRT | L-8032D | Bleu du Maine sheep breed | 131708007 | C1296133 |
| SRT | L-8032E | Bluefaced Leicester sheep breed | 131709004 | C1269167 |
| SRT | L-8032F | Bond sheep breed | 131710009 | C1296134 |
| SRT | L-8033A | Border Leicester sheep breed | 131711008 | C1269168 |
| SRT | L-8033B | Boreray sheep breed | 131712001 | C1296135 |
| SRT | L-8033C | Bovska sheep breed | 131713006 | C1296136 |
| SRT | L-8033D | Braunes Bergschaf sheep breed | 131714000 | C1296137 |
| SRT | L-8033E | Brazilian Somali sheep breed | 131715004 | C1269169 |
| SRT | L-8033F | Beulah Speckled-Face sheep breed | 131716003 | C1269170 |
| SRT | L-8034A | Dartmoor sheep breed | 131717007 | C1296138 |
| SRT | L-8034B | Fabrianese sheep breed | 131718002 | C1269171 |
| SRT | L-8034C | Exmoor Horn sheep breed | 131719005 | C1296139 |
| SRT | L-8034D | Elliottdale sheep breed | 131720004 | C1296140 |
| SRT | L-8034E | Drysdale sheep breed | 131721000 | C1296141 |
| SRT | L-8034F | Dorset Down sheep breed | 131722007 | C1296142 |
| SRT | L-80351 | German Blackheaded Mutton sheep breed | 131723002 | C1296143 |
| SRT | L-80352 | Kooka sheep breed | 131724008 | C1296144 |
| SRT | L-80353 | Friesian Milk Sheep breed | 131725009 | C1296145 |
| SRT | L-80354 | Gansu Alpine Fine-wool sheep breed | 131726005 | C1296146 |
| SRT | L-80355 | German Whiteheaded Mutton sheep breed | 131727001 | C1296147 |
| SRT | L-80356 | Graue Gehoernte Heidschnucke sheep breed | 131728006 | C1296148 |
| SRT | L-80357 | Han sheep breed | 131729003 | C1296149 |
| SRT | L-80358 | Gromark sheep breed | 131730008 | C1296150 |
| SRT | L-80359 | Gulf Coast Native sheep breed | 131731007 | C1296151 |
| SRT | L-8035A | Dorper sheep breed | 131732000 | C1296152 |
| SRT | L-8035B | Devon Closewool sheep breed | 131733005 | C1296153 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-8035C | Deutsches Blaukoepfiges Fleischschaf sheep breed | 131734004 | C1296154 |
| SRT | L-8035D | Derbyshire Gritstone sheep breed | 131735003 | C1296155 |
| SRT | L-8035E | Coburger Fuchsschaf sheep breed | 131736002 | C1296156 |
| SRT | L-8035F | Danish Landrace sheep breed | 131737006 | C1296157 |
| SRT | L-80360 | Gute sheep breed | 131738001 | C1296158 |
| SRT | L-80361 | Hampshire sheep breed | 131739009 | C1296159 |
| SRT | L-80362 | Gentile di Puglia sheep breed | 131740006 | C1296160 |
| SRT | L-80363 | German Mountain sheep breed | 131741005 | C1296161 |
| SRT | L-80364 | Luzein sheep breed | 131742003 | C1296162 |
| SRT | L-80365 | Katahdin sheep breed | 131743008 | C1296163 |
| SRT | L-80366 | Leineschaf sheep breed | 131744002 | C1296164 |
| SRT | L-80367 | Lincoln Longwool sheep breed | 131745001 | C1296165 |
| SRT | L-80368 | Llanwenog sheep breed | 131746000 | C1296166 |
| SRT | L-80369 | Lleyn sheep breed | 131747009 | C1296167 |
| SRT | L-8036A | Damara sheep breed | 131748004 | C1296168 |
| SRT | L-8036B | Damani sheep breed | 131749007 | C1296169 |
| SRT | L-8036C | Dalesbred sheep breed | 131750007 | C1296170 |
| SRT | L-8036D | Dala sheep breed | 131751006 | C1296171 |
| SRT | L-8036E | Criollo sheep breed | 131752004 | C1296172 |
| SRT | L-8036F | Cormo sheep breed | 131753009 | C1296173 |
| SRT | L-80370 | Lati sheep breed | 131754003 | C1296174 |
| SRT | L-80371 | Lonk sheep breed | 131755002 | C1296175 |
| SRT | L-80372 | Langhe sheep breed | 131756001 | C1296176 |
| SRT | L-80373 | Manx Loaghtan sheep breed | 131757005 | C1296177 |
| SRT | L-80374 | Masai sheep breed | 131758000 | C1296178 |
| SRT | L-80375 | Merinolandschaf sheep breed | 131759008 | C1296179 |
| SRT | L-80376 | Lohi sheep breed | 131760003 | C1296180 |
| SRT | L-80377 | Ile-de-France sheep breed | 131761004 | C1296181 |
| SRT | L-80378 | Hasht Nagri sheep breed | 131762006 | C1296182 |
| SRT | L-80379 | Hazaragie sheep breed | 131763001 | C1296183 |
| SRT | L-8037A | Coopworth sheep breed | 131764007 | C1296184 |
| SRT | L-8037B | Comisana sheep breed | 131765008 | C1296185 |
| SRT | L-8037C | Comeback sheep breed | 131766009 | C1296186 |
| SRT | L-8037D | Sicilian Barbary sheep breed | 131767000 | C1296187 |
| SRT | L-8037E | Africana sheep breed | 131768005 | C1296188 |
| SRT | L-8037F | Welsh Mountain Badger Faced sheep breed | 131769002 | C1296189 |
| SRT | L-80380 | Hebridean sheep breed | 131770001 | C1296190 |
| SRT | L-80381 | Heidschnucke sheep breed | 131771002 | C1296191 |
| SRT | L-80382 | Herdwick sheep breed | 131772009 | C1296192 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-80383 | Hill Radnor sheep breed | 131773004 | C1296193 |
| SRT | L-80384 | Icelandic sheep breed | 131774005 | C1296194 |
| SRT | L-80385 | Harnai sheep breed | 131775006 | C1296195 |
| SRT | L-80386 | Istrian Pramenka sheep breed | 131776007 | C1296196 |
| SRT | L-80387 | Jacob sheep breed | 131777003 | C1296197 |
| SRT | L-80388 | Jezerskosolcavska sheep breed | 131778008 | C1296198 |
| SRT | L-80389 | Kachhi sheep breed | 131779000 | C1296199 |
| SRT | L-8038A | Wensleydale sheep breed | 131780002 | C1296200 |
| SRT | L-8038B | West African Dwarf sheep breed | 131781003 | C1296201 |
| SRT | L-8038C | White Suffolk sheep breed | 131782005 | C1296202 |
| SRT | L-8038D | Whiteface Dartmoor sheep breed | 131783000 | C1296203 |
| SRT | L-8038E | Whiteface Woodland sheep breed | 131784006 | C1296204 |
| SRT | L-8038F | Xinjiang Finewool sheep breed | 131785007 | C1296205 |
| SRT | L-80390 | Kajli sheep breed | 131786008 | C1296206 |
| SRT | L-80391 | Hog Island Sheep breed | 131787004 | C1296207 |
| SRT | L-80392 | Biellese sheep breed | 131788009 | C1296208 |
| SRT | L-80393 | Chios sheep breed | 131789001 | C1296209 |
| SRT | L-80394 | Santa Cruz sheep breed | 131790005 | C1296210 |
| SRT | L-80395 | Charollais sheep breed | 131791009 | C1296211 |
| SRT | L-80396 | Castlemilk Moorit sheep breed | 131792002 | C1296212 |
| SRT | L-80397 | Campanian Barbary sheep breed | 131793007 | C1296213 |
| SRT | L-80398 | California Variegated Mutant sheep breed | 131794001 | C1296214 |
| SRT | L-80399 | California Red sheep breed | 131795000 | C1296215 |
| SRT | L-8039A | Sopravissana sheep breed | 131796004 | C1296216 |
| SRT | L-8039B | Somali sheep breed | 131797008 | C1296217 |
| SRT | L-8039C | Welsh Hill Speckled Face sheep breed | 131798003 | C1296218 |
| SRT | L-8039D | Skudde sheep breed | 131799006 | C1296219 |
| SRT | L-8039E | Waziri sheep breed | 131800005 | C1296220 |
| SRT | L-8039F | Shetland sheep breed | 131801009 | C1296221 |
| SRT | L-80403 | Cambridge sheep breed | 131802002 | C1296222 |
| SRT | L-80404 | Solognote sheep breed | 131803007 | C1296223 |
| SRT | L-8040A | Colombian Criollo horse breed | 131804001 | C1296224 |
| SRT | L-8040B | Comtois horse breed | 131805000 | C1296225 |
| SRT | L-8040C | Corsican horse breed | 131806004 | C1296226 |
| SRT | L-8040D | Costa Rican Saddle Horse horse breed | 131807008 | C1296227 |
| SRT | L-8040E | Costeno horse breed | 131808003 | C1296228 |
| SRT | L-8040F | Cuban Paso horse breed | 131809006 | C1296229 |
| SRT | L-80420 | Rough Fell sheep breed | 131816007 | C1296236 |
| SRT | L-8042D | Danish Warmblood horse breed | 131819000 | C1296239 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | L-80432 | Swaledale sheep breed | 131822003 | C1296242 |
| SRT | L-80434 | Polypay sheep breed | 131823008 | C1296243 |
| SRT | L-80441 | Pagliarola sheep breed | 131830002 | C1296250 |
| SRT | L-80442 | Pomeranian Coarsewool sheep breed | 131831003 | C1296251 |
| SRT | L-80443 | Sheep, Breed Undetermined sheep breed | 131832005 | C1296252 |
| SRT | L-80444 | Orkney sheep breed | 131833000 | C1296253 |
| SRT | L-80445 | Old Norwegian sheep breed | 131834006 | C1296254 |
| SRT | L-80446 | Old Format Sheep breed | 131835007 | C1296255 |
| SRT | L-80447 | Norwegian Fur sheep breed | 131836008 | C1296256 |
| SRT | L-80448 | Norfolk Horn sheep breed | 131837004 | C1296257 |
| SRT | L-80449 | Navajo-Churro sheep breed | 131838009 | C1296258 |
| SRT | L-80466 | Racka sheep breed | 131851004 | C1296270 |
| SRT | L-80467 | Rasa Aragonesa sheep breed | 131852006 | C1296271 |
| SRT | L-80468 | Red Engadine sheep breed | 131853001 | C1296272 |
| SRT | L-80469 | Rhoenschaf sheep breed | 131854007 | C1296273 |
| SRT | L-80470 | Hucul horse breed | 131861006 | C1296279 |
| SRT | L-80471 | AraAppaloosa horse breed | 131862004 | C1296280 |
| SRT | L-80472 | Argentine Criollo horse breed | 131863009 | C1296281 |
| SRT | L-80473 | Argentine Polo Pony horse breed | 131864003 | C1296282 |
| SRT | L-80474 | Australian Pony horse breed | 131865002 | C1296283 |
| SRT | L-80475 | Auxois horse breed | 131866001 | C1296284 |
| SRT | L-80476 | Avelignese horse breed | 131867005 | C1296285 |
| SRT | L-80477 | Azerbaijan horse breed | 131868000 | C1296286 |
| SRT | L-80478 | Azores horse breed | 131869008 | C1296287 |
| SRT | L-80479 | Bali horse breed | 131870009 | C1296288 |
| SRT | L-8047A | Balikun horse breed | 131871008 | C1296289 |
| SRT | L-8047B | Waziri horse breed | 131872001 | C1296290 |
| SRT | L-8047C | Banker Horse horse breed | 131873006 | C1296291 |
| SRT | L-8047D | Bardigiano horse breed | 131874000 | C1296292 |
| SRT | L-8047E | Batak horse breed | 131875004 | C1296293 |
| SRT | L-8047F | Bavarian Warmblood horse breed | 131876003 | C1296294 |
| SRT | L-80480 | Belgian Ardennais horse breed | 131877007 | C1296295 |
| SRT | L-80481 | Belgian Halfblood horse breed | 131878002 | C1296296 |
| SRT | L-80482 | Belgian Warmblood horse breed | 131879005 | C1296297 |
| SRT | L-80483 | Bhutia horse breed | 131880008 | C1296298 |
| SRT | L-80484 | Black Sea Horse horse breed | 131881007 | C1296299 |
| SRT | L-80485 | Bosnian horse breed | 131882000 | C1296300 |
| SRT | L-80486 | Boulonnais horse breed | 131883005 | C1296301 |
| SRT | L-80487 | Brandenburg horse breed | 131884004 | C1296302 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | L-80488 | Brazilian Sport Horse horse breed | 131885003 | C1296303 |
| SRT | L-80489 | British Appaloosa horse breed | 131886002 | C1296304 |
| SRT | L-8048A | British Riding Pony horse breed | 131887006 | C1296305 |
| SRT | L-8048B | British Spotted Pony horse breed | 131888001 | C1296306 |
| SRT | L-8048C | Buohai horse breed | 131889009 | C1296307 |
| SRT | L-8048D | Buryat horse breed | 131890000 | C1296308 |
| SRT | L-8048E | Calabrian horse breed | 131891001 | C1296309 |
| SRT | L-8048F | Camargue horse breed | 131892008 | C1320152 |
| SRT | L-80490 | Canadian Cutting Horse horse breed | 131893003 | C1296310 |
| SRT | L-80491 | Canadian Rustic Pony horse breed | 131894009 | C1296311 |
| SRT | L-80492 | Canadian Sport Horse horse breed | 131895005 | C1296312 |
| SRT | L-80493 | Canik horse breed | 131896006 | C1296313 |
| SRT | L-80494 | Cape Horse horse breed | 131897002 | C1296314 |
| SRT | L-80496 | Cerbat horse breed | 131898007 | C1296315 |
| SRT | L-80497 | Chakouyi horse breed | 131899004 | C1296316 |
| SRT | L-80498 | Chara Horse horse breed | 131900009 | C1296317 |
| SRT | L-80499 | Chickasaw horse breed | 131901008 | C1296318 |
| SRT | L-8049A | Chilote horse breed | 131902001 | C1296319 |
| SRT | L-8049B | Chinese Kazakh horse breed | 131903006 | C1296320 |
| SRT | L-8049C | Chinese Mongolian horse breed | 131904000 | C1296321 |
| SRT | L-8049D | Chumbivilcas horse breed | 131905004 | C1296322 |
| SRT | L-8049E | Chumysh horse breed | 131906003 | C1296323 |
| SRT | L-8049F | Cirit horse breed | 131907007 | C1296324 |
| SRT | L-804A1 | Irish Draft horse breed | 131908002 | C1296325 |
| SRT | L-804A2 | Irish Hunter horse breed | 131909005 | C1296326 |
| SRT | L-804A3 | Cuban Trotter horse breed | 131910000 | C1296327 |
| SRT | L-804A4 | Italian Heavy Draft horse breed | 131911001 | C1296328 |
| SRT | L-804A5 | Jabe horse breed | 131912008 | C1296329 |
| SRT | L-804A6 | Java horse breed | 131913003 | C1296330 |
| SRT | L-804A7 | Vendéen sheep breed | 131914009 | C1321447 |
| SRT | L-804A8 | Czech Warmblood horse breed | 131915005 | C1296331 |
| SRT | L-804A9 | Jinhong horse breed | 131916006 | C1296332 |
| SRT | L-804AA | Jinzhou horse breed | 131917002 | C1296333 |
| SRT | L-804AC | Danubian horse breed | 131919004 | C1296335 |
| SRT | L-804AD | Karachai horse breed | 131920005 | C1296336 |
| SRT | L-804AE | Karakacan horse breed | 131921009 | C1296337 |
| SRT | L-804AF | Kathiawari horse breed | 131922002 | C1296338 |
| SRT | L-804B1 | Ke-Er-Qin horse breed | 131923007 | C1296339 |
| SRT | L-804B2 | Kirgiz horse breed | 131924001 | C1296340 |
| SRT | L-804B3 | Kuznet horse breed | 131925000 | C1296341 |
| SRT | L-804B4 | Landais horse breed | 131926004 | C1296342 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-804B5 | Lewitzer horse breed | 131927008 | C1296343 |
| SRT | L-804B6 | Lichuan horse breed | 131928003 | C1296344 |
| SRT | L-804B7 | Lijiang horse breed | 131929006 | C1296345 |
| SRT | L-804B8 | Llanero horse breed | 131930001 | C1296346 |
| SRT | L-804B9 | Lombok horse breed | 131931002 | C1296347 |
| SRT | L-804BA | Lundy Pony horse breed | 131932009 | C1296348 |
| SRT | L-804BB | Malakan horse breed | 131933004 | C1296349 |
| SRT | L-804BC | Malopolski horse breed | 131934005 | C1296350 |
| SRT | L-804BD | Datong horse breed | 131935006 | C1296351 |
| SRT | L-804BE | Mangalarga Paulista horse breed | 131936007 | C1296352 |
| SRT | L-804BF | Dulmen Pony horse breed | 131937003 | C1296353 |
| SRT | L-804C1 | Maremmana horse breed | 131938008 | C1296354 |
| SRT | L-804C2 | Marwari horse breed | 131939000 | C1296355 |
| SRT | L-804C3 | Megezh horse breed | 131940003 | C1296356 |
| SRT | L-804C4 | Megrel horse breed | 131941004 | C1296357 |
| SRT | L-804C5 | Merens horse breed | 131942006 | C1296358 |
| SRT | L-804C6 | Messara horse breed | 131943001 | C1296359 |
| SRT | L-804C7 | Sumba horse breed | 131944007 | C1296360 |
| SRT | L-804C8 | Sumbawa horse breed | 131945008 | C1296361 |
| SRT | L-804C9 | Swedish Ardennes horse breed | 131946009 | C1296362 |
| SRT | L-804CA | Dutch Tuigpaard horse breed | 131947000 | C1296363 |
| SRT | L-804CB | East and Southeast Anadolu horse breed | 131948005 | C1296364 |
| SRT | L-804CC | Thai Pony horse breed | 131949002 | C1296365 |
| SRT | L-804CD | Thessalonian horse breed | 131950002 | C1296366 |
| SRT | L-804CE | Tibetan horse breed | 131951003 | C1296367 |
| SRT | L-804CF | Tieling horse breed | 131952005 | C1296368 |
| SRT | L-804D1 | Timor horse breed | 131953000 | C1296369 |
| SRT | L-804D2 | Trakya horse breed | 131954006 | C1296370 |
| SRT | L-804D3 | Trote en Gallope horse breed | 131955007 | C1296371 |
| SRT | L-804D4 | Turkoman horse breed | 131956008 | C1296372 |
| SRT | L-804D5 | Tushin horse breed | 131957004 | C1296373 |
| SRT | L-804D6 | Tuva horse breed | 131958009 | C1296374 |
| SRT | L-804D7 | Uzunyayla horse breed | 131959001 | C1296375 |
| SRT | L-804D9 | Voronezh Coach Horse horse breed | 131960006 | C1296376 |
| SRT | L-804DA | Elegant Warmblood horse breed | 131961005 | C1296377 |
| SRT | L-804DB | Welsh Cob horse breed | 131962003 | C1296378 |
| SRT | L-804DC | Welsh Mountain Pony horse breed | 131963008 | C1296379 |
| SRT | L-804DE | English Hack horse breed | 131964002 | C1296380 |
| SRT | L-804DF | Wurtemberg horse breed | 131965001 | C1296381 |
| SRT | L-804E1 | Xilingol horse breed | 131966000 | C1296382 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | L-804E2 | Yanqi horse breed | 131967009 | C1296383 |
| SRT | L-804E3 | Yemeni Horses horse breed | 131968004 | C1296384 |
| SRT | L-804E4 | Yili horse breed | 131969007 | C1296385 |
| SRT | L-804E5 | Yiwu horse breed | 131970008 | C1296386 |
| SRT | L-804E6 | Yunnan horse breed | 131971007 | C1296387 |
| SRT | L-804E7 | German Riding Pony horse breed | 131972000 | C1296388 |
| SRT | L-804E8 | Guanzhong horse breed | 131973005 | C1296389 |
| SRT | L-804E9 | Guizhou horse breed | 131974004 | C1296390 |
| SRT | L-804EA | Guoxia horse breed | 131975003 | C1296391 |
| SRT | L-804EB | Erlunchun horse breed | 131976002 | C1296392 |
| SRT | L-804EC | Half Saddlebred horse breed | 131977006 | C1296393 |
| SRT | L-804ED | Flores horse breed | 131978001 | C1296394 |
| SRT | L-804EE | Freiberg horse breed | 131979009 | C1296395 |
| SRT | L-804EF | Hessen horse breed | 131980007 | C1296396 |
| SRT | L-804F1 | Hinis horse breed | 131981006 | C1296397 |
| SRT | L-804F2 | Hirzai horse breed | 131982004 | C1296398 |
| SRT | L-804F3 | Hungairan Coldblood horse breed | 131983009 | C1296399 |
| SRT | L-804F4 | Hungarian Dun horse breed | 131984003 | C1296400 |
| SRT | L-804F5 | Hungarian Sport Horse horse breed | 131985002 | C1296401 |
| SRT | L-804F6 | International Striped Horse horse breed | 131986001 | C1296402 |
| SRT | L-804F7 | Irish Cob horse breed | 131987005 | C1296403 |
| SRT | L-804F8 | Mezen horse breed | 131988000 | C1296404 |
| SRT | L-804F9 | Mezohegyes Sport Horse horse breed | 131989008 | C1296405 |
| SRT | L-804FA | French Cob horse breed | 131990004 | C1296406 |
| SRT | L-804FB | French Saddle pony horse breed | 131991000 | C1296407 |
| SRT | L-804FC | Murakoz horse breed | 131992007 | C1296408 |
| SRT | L-804FE | Finnhorse Draft horse breed | 131993002 | C1296409 |
| SRT | L-804FF | Mecklenburg horse breed | 131994008 | C1296410 |
| SRT | L-80504 | Catalana chicken breed | 131998006 | C1296414 |
| SRT | L-80542 | Haiti Creole pig breed | 132009005 | C1296425 |
| SRT | L-80543 | Manor Hybrid pig breed | 132010000 | C1296426 |
| SRT | L-80544 | Hamline pig breed | 132011001 | C1296427 |
| SRT | L-80545 | Manor Ranger pig breed | 132012008 | C1296428 |
| SRT | L-80546 | Manor Meishan pig breed | 132013003 | C1296429 |
| SRT | L-80547 | Cotswold Gold pig breed | 132014009 | C1296430 |
| SRT | L-80548 | Cotswold Platinum pig breed | 132015005 | C1296431 |
| SRT | L-80549 | Cotswold 16 pig breed | 132016006 | C1296432 |
| SRT | L-8054A | Cotswold 29 pig breed | 132017002 | C1296433 |
| SRT | L-8054B | Cotswold 90 pig breed | 132018007 | C1296434 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| SRT | L-8054C | Hampen pig breed | 132019004 | C1296435 |
| SRT | L-8054D | SPM pig breed | 132020005 | C1296436 |
| SRT | L-8054E | High Conformation White pig breed | 132021009 | C1296437 |
| SRT | L-8054F | Line 32 pig breed | 132022002 | C1296438 |
| SRT | L-80555 | Line 21 pig breed | 132023007 | C1296439 |
| SRT | L-80556 | Meatline pig breed | 132024001 | C1296440 |
| SRT | L-80557 | Hampline pig breed | 132025000 | C1296441 |
| SRT | L-80558 | Euroline pig breed | 132026004 | C1296442 |
| SRT | L-80559 | Norline pig breed | 132027008 | C1296443 |
| SRT | L-8055A | Premier pig breed | 132028003 | C1296444 |
| SRT | L-8055B | Tribred pig breed | 132029006 | C1296445 |
| SRT | L-8055C | American Essex pig breed | 132030001 | C1296446 |
| SRT | L-8055D | Sino-Gascony pig breed | 132031002 | C1296447 |
| SRT | L-8055E | Guadeloupe Creole pig breed | 132032009 | C1296448 |
| SRT | L-8055F | Managra pig breed | 132033004 | C1296449 |
| SRT | L-8056A | Canadian Landrace pig breed | 132034005 | C1296450 |
| SRT | L-8056B | Canadian Yorkshire pig breed | 132035006 | C1296451 |
| SRT | L-8056C | Minnesota #4 pig breed | 132036007 | C0324271 |
| SRT | L-8056D | Pineywoods pig breed | 132037003 | C1296453 |
| SRT | L-8056E | Catalina Island pig breed | 132038008 | C1296454 |
| SRT | L-8056F | Ras-n-Lansa pig breed | 132039000 | C1296455 |
| SRT | L-8057B | Pitman-Moore Miniature pig breed | 132040003 | C1296456 |
| SRT | L-8057C | Vita Vet Lab Minipig pig breed | 132041004 | C1296457 |
| SRT | L-8057D | Hanford Miniature pig breed | 132042006 | C1296458 |
| SRT | L-8057E | Black Hampshire pig breed | 132043001 | C1296459 |
| SRT | L-8057F | Red Hamprace pig breed | 132044007 | C1269195 |
| SRT | L-80583 | American Yorkshire pig breed | 132045008 | C1269196 |
| SRT | L-80584 | American Berkshire pig breed | 132046009 | C1269197 |
| SRT | L-80585 | Camborough Blue pig breed | 132047000 | C1269198 |
| SRT | L-80586 | Camborough 12 pig breed | 132048005 | C1296460 |
| SRT | L-80587 | Westrain pig breed | 132049002 | C1296461 |
| SRT | L-80588 | Dalland 030 pig breed | 132050002 | C1296462 |
| SRT | L-80589 | Razor-Back pig breed | 132051003 | C1296463 |
| SRT | L-8058A | Macau pig breed | 132052005 | C1296464 |
| SRT | L-8058B | Moura pig breed | 132053000 | C1296465 |
| SRT | L-8058C | Canastra pig breed | 132054006 | C1296466 |
| SRT | L-8058D | Pirapetinga pig breed | 132055007 | C1296467 |
| SRT | L-8058E | Piau pig breed | 132056008 | C1296468 |
| SRT | L-8058F | Nilo-Canastra pig breed | 132057004 | C1296469 |
| SRT | L-80595 | Canastrão pig breed | 132058009 | C1321448 |
| SRT | L-80596 | Canastrão, Junqueira pig breed | 132059001 | C1321449 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | L-80597 | Canastrão, Capitão Chico pig breed | 132060006 | C1321450 |
| SRT | L-80598 | Canastrão, Zabumba pig breed | 132061005 | C1321451 |
| SRT | L-80599 | Canastrão, Cabano pig breed | 132062003 | C1321452 |
| SRT | L-8059A | Canastrão, Vermelho pig breed | 132063008 | C1321453 |
| SRT | L-8059B | Piau, Caruncho Piau pig breed | 132064002 | C1296470 |
| SRT | L-8059C | Canastrinho pig breed | 132065001 | C1296471 |
| SRT | L-8059D | Honduras Switch-Tail pig breed | 132066000 | C1269199 |
| SRT | L-8059E | Mastergilt pig breed | 132067009 | C1296472 |
| SRT | L-8059F | Sovereign pig breed | 132068004 | C1269200 |
| SRT | L-805A1 | Poltava pig breed | 132069007 | C1296473 |
| SRT | L-805A2 | Lipetsk pig breed | 132070008 | C1296474 |
| SRT | L-805A3 | Soviet Meat pig breed | 132071007 | C1269201 |
| SRT | L-805A4 | Central Russian pig breed | 132072000 | C1269202 |
| SRT | L-805A5 | Steppe Meat pig breed | 132073005 | C1269203 |
| SRT | L-805A6 | Kharkov pig breed | 132074004 | C1296475 |
| SRT | L-805A7 | Dnepropetrovsk pig breed | 132075003 | C1296476 |
| SRT | L-805A8 | Russian Large White pig breed | 132076002 | C1269204 |
| SRT | L-805A9 | Forest Mountain pig breed | 132077006 | C1269205 |
| SRT | L-805AA | Dnieper pig breed | 132078001 | C1296477 |
| SRT | L-805AB | Iberian pig breed | 132079009 | C1296478 |
| SRT | L-805AC | Iberian, Extremadura Red pig breed | 132080007 | C1269206 |
| SRT | L-805AD | Iberian, Jabugo Spotted pig breed | 132081006 | C1269207 |
| SRT | L-805AE | Iberian, Black Iberian pig breed | 132082004 | C1269208 |
| SRT | L-805AF | Philippine Native, Ilocos pig breed | 132083009 | C1269209 |
| SRT | L-805B1 | Philippine Native, Jalajala pig breed | 132084003 | C1269210 |
| SRT | L-805B2 | Mangalista pig breed | 132085002 | C1269211 |
| SRT | L-805B3 | Alentejana pig breed | 132086001 | C1269212 |
| SRT | L-805B4 | Belgian Landrace, BN pig breed | 132087005 | C1269213 |
| SRT | L-805B5 | French Large White pig breed | 132088000 | C1269214 |
| SRT | L-805B6 | Hyper Large White pig breed | 132089008 | C1269215 |
| SRT | L-805B7 | Tia Meslan pig breed | 132090004 | C1269216 |
| SRT | L-805B8 | Pen ar Lan 77 pig breed | 132091000 | C1296479 |
| SRT | L-805B9 | Penshire pig breed | 132092007 | C1296480 |
| SRT | L-805BA | Laconie pig breed | 132093002 | C1269217 |
| SRT | L-805BB | Murcian pig breed | 132094008 | C1269218 |
| SRT | L-805BC | Cavallino pig breed | 132095009 | C1269219 |
| SRT | L-805BD | Calabrian pig breed | 132096005 | C1296481 |
| SRT | L-805BE | Apulian pig breed | 132097001 | C1269220 |
| SRT | L-805BF | Siena Belted pig breed | 132098006 | C1269221 |
| SRT | L-805C1 | Calascibetta pig breed | 132099003 | C1269222 |
| SRT | L-805C2 | Güssing Forest Pig pig breed | 132100006 | C1321454 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-805C3 | Swiss Edelschwein pig breed | 132101005 | C1269223 |
| SRT | L-805C4 | North Caucasus pig breed | 132102003 | C1296482 |
| SRT | L-805C5 | Don pig breed | 132103008 | C1269224 |
| SRT | L-805C6 | Rostov pig breed | 132104002 | C1296483 |
| SRT | L-805C7 | Russian Long-Eared White pig breed | 132105001 | C1269225 |
| SRT | L-805C8 | Russian Short-Eared White pig breed | 132106000 | C1269226 |
| SRT | L-805C9 | Prisheksninsk pig breed | 132107009 | C1296484 |
| SRT | L-805CA | Breitolv pig breed | 132108004 | C1296485 |
| SRT | L-805CB | Livny pig breed | 132109007 | C1296486 |
| SRT | L-805CC | Tsivilsk pig breed | 132110002 | C1296487 |
| SRT | L-805CD | Urzhum pig breed | 132111003 | C1296488 |
| SRT | L-805CE | Minisib pig breed | 132112005 | C1296489 |
| SRT | L-805CF | Sakhalin White pig breed | 132113000 | C1269227 |
| SRT | L-805D0 | North Siberian pig breed | 132114006 | C1296490 |
| SRT | L-805D1 | Siberian Black Pied pig breed | 132115007 | C1269228 |
| SRT | L-805D2 | Kemerovo pig breed | 132116008 | C1296491 |
| SRT | L-805D3 | KM-1 pig breed | 132117004 | C1296492 |
| SRT | L-805D4 | Aksai Black Pied pig breed | 132118009 | C1321455 |
| SRT | L-805D5 | Semirechensk pig breed | 132119001 | C1296493 |
| SRT | L-805D6 | Min pig breed | 132120007 | C1296494 |
| SRT | L-805D7 | Sanjiang White pig breed | 132121006 | C1269229 |
| SRT | L-805D8 | Basque Black Pied pig breed | 132122004 | C1269230 |
| SRT | L-805D9 | Corsican pig breed | 132123009 | C1296495 |
| SRT | L-805DA | Créole pig breed | 132124003 | C1321456 |
| SRT | L-805DB | Gascony pig breed | 132125002 | C1296496 |
| SRT | L-805DC | Limousin pig breed | 132126001 | C1296497 |
| SRT | L-805DD | Harbin White pig breed | 132127005 | C1269231 |
| SRT | L-805DE | Heilongjiang Spotted pig breed | 132128000 | C1269232 |
| SRT | L-805DF | Liaoning Black pig breed | 132129008 | C1269233 |
| SRT | L-805E1 | Huang-Huai-Hai Black, Shenxian pig breed | 132130003 | C1269234 |
| SRT | L-805E2 | Huang-Huai-Hai Black pig breed | 132131004 | C1269235 |
| SRT | L-805E3 | Bamei pig breed | 132132006 | C1296498 |
| SRT | L-805E4 | Hanjiang Black pig breed | 132133001 | C1269236 |
| SRT | L-805E5 | Ding pig breed | 132134007 | C1296499 |
| SRT | L-805E6 | Huai pig breed | 132135008 | C1296500 |
| SRT | L-805E7 | New Huai pig breed | 132136009 | C1296501 |
| SRT | L-805E8 | Mashen pig breed | 132137000 | C1296502 |
| SRT | L-805E9 | Yimeng Black pig breed | 132138005 | C1269237 |
| SRT | L-805EB | Hetao Lop-Ear pig breed | 132139002 | C1269238 |
| SRT | L-805EC | Korean Native pig breed | 132140000 | C1269239 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|
| SRT | L-805ED | Korean Improved pig breed | 132141001 | C1269240 |
| SRT | L-805EE | Penbuk pig breed | 132142008 | C1296503 |
| SRT | L-805EF | Beijing Black pig breed | 132143003 | C1269241 |
| SRT | L-805F1 | Chenghua pig breed | 132144009 | C1296504 |
| SRT | L-805F2 | Taoyuan pig breed | 132145005 | C1296505 |
| SRT | L-805F3 | Taiwan Small Black pig breed | 132146006 | C1269242 |
| SRT | L-805F4 | Taiwan Small Red pig breed | 132147002 | C1269243 |
| SRT | L-805F5 | Guanling pig breed | 132148007 | C1296506 |
| SRT | L-805F6 | Huchuan Mountain pig breed | 132149004 | C1269244 |
| SRT | L-805F7 | Rongchang pig breed | 132150004 | C1296507 |
| SRT | L-805F8 | Wujin pig breed | 132151000 | C1296508 |
| SRT | L-805F9 | Dahe pig breed | 132152007 | C1296509 |
| SRT | L-805FA | Yanan pig breed | 132153002 | C1296510 |
| SRT | L-805FB | South Yunnan Short-Eared pig breed | 132154008 | C1269245 |
| SRT | L-805FC | Hainan, Lingao pig breed | 132155009 | C1269246 |
| SRT | L-805FD | Hainan, Tunchang pig breed | 132156005 | C1269247 |
| SRT | L-805FE | Hainan, Wenchang pig breed | 132157001 | C1269248 |
| SRT | L-805FF | Liang Guang Small Spotted pig breed | 132158006 | C1269249 |
| SRT | L-8060A | German Pasture pig breed | 132159003 | C1296511 |
| SRT | L-8060B | Piau, Sorocaba pig breed | 132160008 | C1269250 |
| SRT | L-8060C | Nilo pig breed | 132161007 | C1296512 |
| SRT | L-8060D | Bahia pig breed | 132162000 | C1296513 |
| SRT | L-8060E | Perna-Curta pig breed | 132163005 | C1296514 |
| SRT | L-8060F | Carunchinho pig breed | 132164004 | C1296515 |
| SRT | L-80613 | Mandi pig breed | 132165003 | C1296516 |
| SRT | L-80614 | Orehla de Colher pig breed | 132166002 | C1296517 |
| SRT | L-80615 | Venezuelan Black pig breed | 132167006 | C1296518 |
| SRT | L-80616 | Bolivian pig breed | 132168001 | C1296519 |
| SRT | L-80617 | Pelón pig breed | 132169009 | C1321457 |
| SRT | L-80618 | Mexican Wattled pig breed | 132170005 | C1269251 |
| SRT | L-80619 | Dalland 080 pig breed | 132171009 | C1296520 |
| SRT | L-8061B | Monarch pig breed | 132173007 | C1269252 |
| SRT | L-8061C | Bisaro pig breed | 132174001 | C1296521 |
| SRT | L-8061D | Black Hairless pig breed | 132175000 | C1269253 |
| SRT | L-8061E | Black Mangalitsa pig breed | 132176004 | C1269254 |
| SRT | L-80623 | Borghigiana pig breed | 132178003 | C1296523 |
| SRT | L-80624 | Chianina pig breed | 132179006 | C1296524 |
| SRT | L-80625 | Cosentina pig breed | 132180009 | C1296525 |
| SRT | L-80626 | Cuino pig breed | 132181008 | C1296526 |
| SRT | L-80627 | Friuli Black pig breed | 132182001 | C1269255 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | L-80628 | Fumati pig breed | 132183006 | C1296527 |
| SRT | L-80629 | Galician pig breed | 132184000 | C1296528 |
| SRT | L-8062A | German Berkshire pig breed | 132185004 | C1296529 |
| SRT | L-8062B | Ghuri pig breed | 132186003 | C1296530 |
| SRT | L-8062C | Jianli pig breed | 132187007 | C1296531 |
| SRT | L-8062D | Lucanian pig breed | 132188002 | C1269256 |
| SRT | L-8062E | Maremmiana pig breed | 132189005 | C1296532 |
| SRT | L-8062F | Miami pig breed | 132190001 | C1296533 |
| SRT | L-80634 | Montmorillon pig breed | 132191002 | C1296534 |
| SRT | L-80635 | Old Swedish Spotted pig breed | 132192009 | C1269257 |
| SRT | L-80636 | Oliventina pig breed | 132193004 | C1296535 |
| SRT | L-80637 | Parmense pig breed | 132194005 | C1296536 |
| SRT | L-80638 | Romagnola pig breed | 132195006 | C1296537 |
| SRT | L-80639 | Siberian pig breed | 132196007 | C1296538 |
| SRT | L-8063A | Small White pig breed | 132197003 | C1269258 |
| SRT | L-8063B | Baltaret pig breed | 132198008 | C1296539 |
| SRT | L-8063C | Tungchang pig breed | 132199000 | C1296540 |
| SRT | L-8063D | Sterling pig breed | 132200002 | C1296541 |
| SRT | L-8063E | Vich pig breed | 132201003 | C1296542 |
| SRT | L-8063F | Vietnamese pig breed | 132202005 | C1296543 |
| SRT | L-80645 | Vitoria pig breed | 132203000 | C1296544 |
| SRT | L-80646 | Wai Chow pig breed | 132204006 | C1296545 |
| SRT | L-80647 | Yorkshire Blue and White pig breed | 132205007 | C1269259 |
| SRT | L-80648 | Dalland 020 pig breed | 132206008 | C1296546 |
| SRT | L-80649 | Wiltshire pig breed | 132207004 | C1296547 |
| SRT | L-8064A | Hamroc pig breed | 132208009 | C1296548 |
| SRT | L-8064B | DRU™ Terminals pig breed | 132209001 | C1269260 |
| SRT | L-8064C | Camborough 22 pig breed | 132210006 | C1296549 |
| SRT | L-8064D | Camborough 15 pig breed | 132211005 | C1296550 |
| SRT | L-8064E | PR 1050 pig breed | 132212003 | C1296551 |
| SRT | L-8064F | PR 1075 pig breed | 132213008 | C1296552 |
| SRT | L-8065A | Chryak PIC pig breed | 132214002 | C1296553 |
| SRT | L-8065B | Canadian Royal Blue pig breed | 132215001 | C1269261 |
| SRT | L-8065C | Line 500 Duroc pig breed | 132216000 | C1269262 |
| SRT | L-8065D | Bodmin 950 pig breed | 132217009 | C1296554 |
| SRT | L-8065E | Canadian Duroc pig breed | 132218004 | C1296555 |
| SRT | L-8065F | Canadian Hampshire pig breed | 132219007 | C1296556 |
| SRT | L-80664 | Ba Xuyen pig breed | 132220001 | C1296557 |
| SRT | L-80665 | Arapawa Island pig breed | 132221002 | C1296558 |
| SRT | L-80666 | Wuzhishan pig breed | 132222009 | C1296559 |
| SRT | L-80667 | Philippine Native pig breed | 132223004 | C1269263 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | L-80668 | Sinclair Miniature pig breed | 132224005 | C1269264 |
| SRT | L-80669 | Saddleback pig breed | 132225006 | C1296560 |
| SRT | L-8066A | Yucatan Miniature pig breed | 132226007 | C1269265 |
| SRT | L-8066B | Bantu pig breed | 132227003 | C1296561 |
| SRT | L-8066C | Tibetan pig breed | 132228008 | C1296562 |
| SRT | L-8066D | Turopolje pig breed | 132229000 | C1296563 |
| SRT | L-8066E | Vietnamese Pot-Bellied Pig pig breed | 132230005 | C1296564 |
| SRT | L-8066F | American Landrace pig breed | 132231009 | C1269266 |
| SRT | L-80670 | Swallow Belied Mangalitza pig breed | 132232002 | C1269267 |
| SRT | L-80671 | Fengjing pig breed | 132233007 | C1296565 |
| SRT | L-80672 | Finnish Landrace pig breed | 132234001 | C1269268 |
| SRT | L-80673 | Guinea Hog pig breed | 132235000 | C1296566 |
| SRT | L-80674 | Hezuo pig breed | 132236004 | C1296567 |
| SRT | L-80675 | Ossabaw Island pig breed | 132237008 | C1296568 |
| SRT | L-80676 | Kele pig breed | 132238003 | C1296569 |
| SRT | L-80677 | Krskopolje pig breed | 132239006 | C1296570 |
| SRT | L-80678 | Kunekune pig breed | 132240008 | C1296571 |
| SRT | L-80679 | Large Black-White pig breed | 132241007 | C1269269 |
| SRT | L-8067A | Lithuanian Native pig breed | 132242000 | C1269270 |
| SRT | L-8067B | Meishan pig breed | 132243005 | C1296572 |
| SRT | L-8067C | Jinhua pig breed | 132244004 | C1296573 |
| SRT | L-8067D | Ningxiang pig breed | 132245003 | C1296574 |
| SRT | L-8067E | Mora Romagnola pig breed | 132246002 | C1296575 |
| SRT | L-8067F | Mukota pig breed | 132247006 | C1296576 |
| SRT | L-80680 | Minzhu pig breed | 132248001 | C1296577 |
| SRT | L-80681 | Neijiang pig breed | 132249009 | C1296578 |
| SRT | L-80682 | Mulefoot pig breed | 132250009 | C1269271 |
| SRT | L-80683 | Normand pig breed | 132251008 | C1296579 |
| SRT | L-80684 | Angeln Saddleback pig breed | 132252001 | C1269192 |
| SRT | L-80685 | Greek Local pig breed | 132253006 | C1269193 |
| SRT | L-80686 | Icelandic pig breed | 132254000 | C1296580 |
| SRT | L-80687 | Casertana pig breed | 132255004 | C1296581 |
| SRT | L-80688 | Madonie-Sicilian pig breed | 132256003 | C1269194 |
| SRT | L-80689 | Sardinian pig breed | 132257007 | C1296582 |
| SRT | L-8068A | Sicilian pig breed | 132258002 | C1296583 |
| SRT | L-8068B | Zlotniki Spotted pig breed | 132259005 | C1269272 |
| SRT | L-8068C | Zlotniki White pig breed | 132260000 | C1269273 |
| SRT | L-8068D | Siska pig breed | 132261001 | C1296584 |
| SRT | L-8068E | Sumadija pig breed | 132262008 | C1296585 |
| SRT | L-8068F | Froxfield Pygmy pig breed | 132263003 | C1269274 |
| SRT | L-80690 | Danish Large White pig breed | 132264009 | C1269275 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-80691 | Danish Duroc pig breed | 132265005 | C1296586 |
| SRT | L-80692 | Danish Hampshire pig breed | 132266006 | C1296587 |
| SRT | L-80693 | Piggham pig breed | 132267002 | C1296588 |
| SRT | L-80694 | New York Red pig breed | 132268007 | C1269276 |
| SRT | L-80695 | Finnish Yorkshire pig breed | 132269004 | C1296589 |
| SRT | L-80696 | Dutch Yorkshire pig breed | 132270003 | C1296590 |
| SRT | L-80697 | Pulawy pig breed | 132271004 | C1296591 |
| SRT | L-80698 | Pomeranian pig breed | 132272006 | C1296592 |
| SRT | L-80699 | Polish Landrace pig breed | 132273001 | C1269277 |
| SRT | L-8069A | Estonian Bacon pig breed | 132274007 | C1269278 |
| SRT | L-8069B | Latvian White pig breed | 132275008 | C1269279 |
| SRT | L-8069C | Lithuanian White pig breed | 132276009 | C1269280 |
| SRT | L-8069D | BKB-1 pig breed | 132277000 | C1296593 |
| SRT | L-8069E | Belorus Black Pied pig breed | 132278005 | C1269281 |
| SRT | L-8069F | Mirgorod pig breed | 132279002 | C1296594 |
| SRT | L-806A1 | Liang Guang Small Spotted, Luchuan pig breed | 132280004 | C1269282 |
| SRT | L-806A2 | Fujian Small pig breed | 132281000 | C1269283 |
| SRT | L-806A3 | North Fujian Black-and-White pig breed | 132282007 | C1269284 |
| SRT | L-806A4 | Fuan Spotted pig breed | 132283002 | C1269285 |
| SRT | L-806A5 | Putian pig breed | 132284008 | C1269286 |
| SRT | L-806A6 | Fuzhou Black pig breed | 132285009 | C1269287 |
| SRT | L-806A7 | Minbei Spotted pig breed | 132286005 | C1269288 |
| SRT | L-806A8 | Lantang pig breed | 132287001 | C1296595 |
| SRT | L-806A9 | Liang Guang Small Spotted, Guangdong Small Ear pig breed | 132288006 | C1269289 |
| SRT | L-806AA | Longlin pig breed | 132289003 | C1296596 |
| SRT | L-806AB | Yuedong Black pig breed | 132290007 | C1269290 |
| SRT | L-806AC | Xiang pig breed | 132291006 | C1296597 |
| SRT | L-806AD | Cantonese pig breed | 132292004 | C1296598 |
| SRT | L-806AE | Jinhua, Dongyang pig breed | 132293009 | C1269291 |
| SRT | L-806AF | Jinhua, Yongkang pig breed | 132294003 | C1269292 |
| SRT | L-806B1 | Daweizi pig breed | 132295002 | C1296599 |
| SRT | L-806B2 | Huazhong Two-End Black pig breed | 132296001 | C1269293 |
| SRT | L-806B3 | Huazhong Two-End Black, Jianli pig breed | 132297005 | C1269294 |
| SRT | L-806B4 | Huazhong Two-End Black, Tongcheng pig breed | 132298000 | C1269295 |
| SRT | L-806B5 | Huazhong Two-End Black, Satzeling pig breed | 132299008 | C1269296 |
| SRT | L-806B6 | Ganzhongnan Spotted pig breed | 132300000 | C1269297 |
| SRT | L-806B7 | Hang pig breed | 132301001 | C1296600 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-806B8 | Leping pig breed | 132302008 | C1296601 |
| SRT | L-806B9 | Longyou Black pig breed | 132303003 | C1269298 |
| SRT | L-806BA | Wuyi Black pig breed | 132304009 | C1269299 |
| SRT | L-806BB | Lee-Sung pig breed | 132305005 | C1296602 |
| SRT | L-806BC | Lan-Yu pig breed | 132306006 | C1296603 |
| SRT | L-806BD | Vietnamese Yorkshire pig breed | 132307002 | C1296604 |
| SRT | L-806BE | Yujiang pig breed | 132308007 | C1296605 |
| SRT | L-806BF | Wanzhe Spotted pig breed | 132309004 | C1269300 |
| SRT | L-806C1 | Wanzhe Spotted, Chunan Spotted pig breed | 132310009 | C1269301 |
| SRT | L-806C2 | Wanzhe Spotted, Wannan Spotted pig breed | 132311008 | C1296606 |
| SRT | L-806C3 | Shengxian Spotted pig breed | 132312001 | C1296607 |
| SRT | L-806C4 | Qingping pig breed | 132313006 | C1296608 |
| SRT | L-806C5 | Xiangxi Black pig breed | 132314000 | C1296609 |
| SRT | L-806C6 | Bamaxiang pig breed | 132315004 | C1296610 |
| SRT | L-806C7 | Taihu pig breed | 132316003 | C1296611 |
| SRT | L-806C8 | Erhulian pig breed | 132317007 | C1296612 |
| SRT | L-806C9 | Jiaying Black pig breed | 132318002 | C1296613 |
| SRT | L-806CA | Mi pig breed | 132319005 | C1296614 |
| SRT | L-806CB | Shahutou pig breed | 132320004 | C1296615 |
| SRT | L-806CC | Jiaoxi pig breed | 132321000 | C1296616 |
| SRT | L-806CD | Shanghai White pig breed | 132322007 | C1296617 |
| SRT | L-806CE | Hubei White pig breed | 132323002 | C1296618 |
| SRT | L-806CF | Xinjin pig breed | 132324008 | C1296619 |
| SRT | L-806D1 | Xinjin, Jilin Black pig breed | 132325009 | C1296620 |
| SRT | L-806D2 | Xinjin, Ning-an pig breed | 132326005 | C1296621 |
| SRT | L-806D3 | Í pig breed | 132327001 | C1321458 |
| SRT | L-806D4 | DBI pig breed | 132328006 | C1296622 |
| SRT | L-806D5 | Xinjin, Xinjin pig breed | 132329003 | C1296623 |
| SRT | L-806D6 | Meixin pig breed | 132330008 | C1296624 |
| SRT | L-806D7 | North East China Spotted pig breed | 132331007 | C1296625 |
| SRT | L-806D8 | Fannong Spotted pig breed | 132332000 | C1296626 |
| SRT | L-806D9 | Laoshan pig breed | 132333005 | C1296627 |
| SRT | L-806DA | Nanjing Black pig breed | 132334004 | C1296628 |
| SRT | L-806DB | Shanxi Black pig breed | 132335003 | C1296629 |
| SRT | L-806DC | Ganzhou White pig breed | 132336002 | C1296630 |
| SRT | L-806DD | Guangxi White pig breed | 132337006 | C1296631 |
| SRT | L-806DE | Hanzhong White pig breed | 132338001 | C1296632 |
| SRT | L-806DF | Lutai White pig breed | 132339009 | C1296633 |
| SRT | L-806E1 | Yili White pig breed | 132340006 | C1296634 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | L-806E2 | Xinjiang White pig breed | 132341005 | C1296635 |
| SRT | L-806E3 | BSI pig breed | 132342003 | C1296636 |
| SRT | L-806E4 | Mong Cai pig breed | 132343008 | C1296637 |
| SRT | L-806E5 | Lang Hong pig breed | 132344002 | C1296638 |
| SRT | L-806E6 | Muong Khuong pig breed | 132345001 | C1296639 |
| SRT | L-806E7 | Meo pig breed | 132346000 | C1296640 |
| SRT | L-806E8 | Tong Con pig breed | 132347009 | C1296641 |
| SRT | L-806E9 | Ha Bac pig breed | 132348004 | C1296642 |
| SRT | L-806EA | Thai Binh pig breed | 132349007 | C1296643 |
| SRT | L-806EB | Co pig breed | 132350007 | C1296644 |
| SRT | L-806EC | Swiss Improved Landrace pig breed | 132351006 | C1296645 |
| SRT | L-806ED | German Landrace B pig breed | 132352004 | C1296646 |
| SRT | L-806EE | Edelschwein pig breed | 132353009 | C1296647 |
| SRT | L-806EF | Swabian-Hall pig breed | 132354003 | C1296648 |
| SRT | L-806F1 | Bentheim Black Pied pig breed | 132355002 | C1296649 |
| SRT | L-806F2 | Baldinger Spotted pig breed | 132356001 | C1296650 |
| SRT | L-806F3 | German Red Pied pig breed | 132357005 | C1296651 |
| SRT | L-806F4 | German Cornwall pig breed | 132358000 | C1296652 |
| SRT | L-806F5 | Göttingen Miniature pig breed | 132359008 | C1321459 |
| SRT | L-806F6 | Munich Miniature pig breed | 132360003 | C1296653 |
| SRT | L-806F8 | Leicoma pig breed | 132361004 | C1296654 |
| SRT | L-806F9 | Schwerfurt Meat pig breed | 132362006 | C1296655 |
| SRT | L-806FA | Hungarian White pig breed | 132363001 | C1296656 |
| SRT | L-806FB | Hungahyb pig breed | 132364007 | C1296657 |
| SRT | L-806FC | Bulgarian Native pig breed | 132365008 | C1296658 |
| SRT | L-806FD | East Balkan pig breed | 132366009 | C1296659 |
| SRT | L-806FE | Kula pig breed | 132367000 | C1296660 |
| SRT | L-806FF | Nghia Binh pig breed | 132368005 | C1296661 |
| SRT | L-807E2 | Bichon Teneriffe dog breed | 132371002 | C1296664 |
| SRT | L-807E3 | Bizanian Hound dog breed | 132372009 | C1296663 |
| SRT | L-807E4 | Bloodhound, St. Hubert dog breed | 132373004 | C1296665 |
| SRT | L-807E5 | Bloodhound, Southern Hound dog breed | 132374005 | C1296666 |
| SRT | L-808A3 | Bordeaux Dog breed | 132389001 | C1296679 |
| SRT | L-807E7 | Brandlbracke dog breed | 132376007 | C1296668 |
| SRT | L-807E8 | Braque d'Ariège dog breed | 132377003 | C1321460 |
| SRT | L-807E9 | Portuguese Guard Dog breed | 132378008 | C1296669 |
| SRT | L-807EA | Great Münsterländer dog breed | 132379000 | C1321461 |
| SRT | L-807EB | Beagle, Smooth dog breed | 132380002 | C1296670 |
| SRT | L-807EC | Beagle, Rough dog breed | 132381003 | C1296671 |
| SRT | L-807ED | Belgian Griffon, Rough dog breed | 132382005 | C1296672 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | L-807EE | Belgian Griffon, Smooth dog breed | 132383000 | C1296673 |
| SRT | L-807EF | Braque Belge dog breed | 132384006 | C1296674 |
| SRT | L-807F1 | Belgian Street Dog breed | 132385007 | C1296675 |
| SRT | L-807F2 | Bernese Hound dog breed | 132386008 | C1296676 |
| SRT | L-808A1 | Eurasier dog breed | 132387004 | C1296677 |
| SRT | L-808A2 | English Bulldog breed | 132388009 | C1296678 |
| SRT | L-808A3 | Dogue de Bourdeaux dog breed | 132389001 | C1296679 |
| SRT | L-808A4 | Kai Ken dog breed | 132390005 | C1296680 |
| SRT | L-808A5 | Kui Mlk dog breed | 132391009 | C1296681 |
| SRT | L-808A6 | Argentine Dogo dog breed | 132392002 | C1296682 |
| SRT | L-808A7 | Alentejo herder dog breed | 132393007 | C1296683 |
| SRT | L-808A8 | Saint Bernard, Long-haired dog breed | 132394001 | C1296684 |
| SRT | L-808A9 | Saint Bernard, Short-haired dog breed | 132395000 | C1296685 |
| SRT | L-808AA | West Siberian Laika dog breed | 132396004 | C1296686 |
| SRT | L-808AB | Basset Fauve de Bretagne dog breed | 132397008 | C1296687 |
| SRT | L-808AC | Japanese Retriever dog breed | 132398003 | C1296688 |
| SRT | L-808AD | Kai Dog breed | 132399006 | C1296689 |
| SRT | L-808AE | American Blue Gascon Hound dog breed | 132400004 | C1296690 |
| SRT | L-808AF | Beagle Harrier dog breed | 132401000 | C1296691 |
| SRT | L-808B1 | Kangal Dog breed | 132402007 | C1296692 |
| SRT | L-808B2 | Leopard Cur dog breed | 132403002 | C1296693 |
| SRT | L-808B3 | Patterdale Terrier dog breed | 132404008 | C1296694 |
| SRT | L-808B4 | Petit Brabaçon dog breed | 132405009 | C1296695 |
| SRT | L-808B5 | Aidi dog breed | 132406005 | C1296696 |
| SRT | L-808B6 | American Indian Dog breed | 132407001 | C1296697 |
| SRT | L-808B7 | Austrian Pinscher dog breed | 132408006 | C1296698 |
| SRT | L-808B8 | American Eskimo, standard dog breed | 132409003 | C1296699 |
| SRT | L-808B9 | American Eskimo, Miniature dog breed | 132410008 | C1296700 |
| SRT | L-808BA | American Eskimo, Toy dog breed | 132411007 | C1296701 |
| SRT | L-808BB | Basset Griffon Vendéen dog breed | 132412000 | C1296702 |
| SRT | L-808BC | Batard dog breed | 132413005 | C1296703 |
| SRT | L-808BD | Basset Bleu de Gascogne dog breed | 132414004 | C1296704 |
| SRT | L-808BE | Braque Dupuy dog breed | 132415003 | C1296705 |
| SRT | L-808BF | Bruno de Jura dog breed | 132416002 | C1296706 |
| SRT | L-808C1 | Cão da Serra de Aires dog breed | 132417006 | C1296707 |
| SRT | L-808C2 | Cão de Castro Laboreiro dog breed | 132418001 | C1296708 |
| SRT | L-808C3 | Cão de Fila Miguel dog breed | 132419009 | C1296709 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | L-808C4 | Catalan Sheepdog breed | 132420003 | C1296710 |
| SRT | L-808C5 | Caucasian Shepherd Dog breed | 132421004 | C1296711 |
| SRT | L-808C6 | Cirneco dell'Etna dog breed | 132422006 | C1296712 |
| SRT | L-808C7 | English Toy Terrier dog breed | 132423001 | C1296713 |
| SRT | L-808C8 | German Spitz dog breed | 132424007 | C1296714 |
| SRT | L-DA692 | Dingo dog breed | 709853007 | C1296715 |
| SRT | L-808CA | Fauve de Bretagne dog breed | 132426009 | C1296716 |
| SRT | L-808CB | Hellenic Hound dog breed | 132427000 | C1296717 |
| SRT | L-808CC | Holland Shepherd dog breed | 132428005 | C1296718 |
| SRT | L-808CD | Japanese Spitz dog breed | 132429002 | C1296719 |
| SRT | L-808CE | Jämthund dog breed | 132430007 | C1296720 |
| SRT | L-808CF | Jindo dog breed | 132431006 | C1296721 |
| SRT | L-808D1 | Karelo-Finnish Laika dog breed | 132432004 | C1296722 |
| SRT | L-808D2 | King Shepherd dog breed | 132433009 | C1296723 |
| SRT | L-808D3 | Kishu dog breed | 132434003 | C1296724 |
| SRT | L-808D4 | Kirhiz dog breed | 132435002 | C1296725 |
| SRT | L-808D5 | Magyar Agár dog breed | 132436001 | C1296726 |
| SRT | L-808D6 | Middle Asian Ovtcharka dog breed | 132437005 | C1296727 |
| SRT | L-808D7 | Mi-Ki dog breed | 132438000 | C1296728 |
| SRT | L-808D8 | Miniature Australian Shepherd dog breed | 132439008 | C1296729 |
| SRT | L-808D9 | Min-pei dog breed | 132440005 | C1296730 |
| SRT | L-808DA | Mountain Cur dog breed | 132441009 | C1296731 |
| SRT | L-808DB | Moscow Longhaired Toy Terrier dog breed | 132442002 | C1296732 |
| SRT | L-808DC | Perdigueiro Portuguese dog breed | 132443007 | C1296733 |
| SRT | L-808DD | Podengo Canario dog breed | 132444001 | C1296734 |
| SRT | L-808DE | Podengo Pequeno dog breed | 132445000 | C1296735 |
| SRT | L-808DF | Pressa Mallorquin dog breed | 132446004 | C1296736 |
| SRT | L-808E1 | Pyrenean Mastiff dog breed | 132447008 | C1296737 |
| SRT | L-808E2 | Rastreador Brasileiro dog breed | 132448003 | C1296738 |
| SRT | L-808E3 | Sabuesos Españoles dog breed | 132449006 | C1296739 |
| SRT | L-808E4 | Schiller Hound dog breed | 132450006 | C1296740 |
| SRT | L-808E5 | South Russian Steppe Hound dog breed | 132451005 | C1296741 |
| SRT | L-808E6 | Styrian Mountain dog breed | 132452003 | C1296742 |
| SRT | L-808E7 | Berger du Languedoc dog breed | 132453008 | C1296743 |
| SRT | L-808E8 | Teddy Roosevelt Terrier dog breed | 132454002 | C1296744 |
| SRT | L-808E9 | Transylvanian Hound dog breed | 132455001 | C1296745 |
| SRT | L-808EA | Trigg Hound dog breed | 132456000 | C1296746 |
| SRT | L-808EB | Tyrolean Hound dog breed | 132457009 | C1296747 |
| SRT | L-808EC | White Shepherd dog breed | 132458004 | C1296748 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-808ED | Wirehair Styrian mountain dog breed | 132459007 | C1296749 |
| SRT | L-808EE | Yugoslavian Hound dog breed | 132460002 | C1296750 |
| SRT | L-808EF | Old Farm Collie dog breed | 132461003 | C1296751 |
| SRT | L-808F1 | Old German Shepherd dog breed | 132462005 | C1296752 |
| SRT | L-808F2 | New Zealand Heading Dog breed | 132463000 | C1296753 |
| SRT | L-808F3 | German Koolie dog breed | 132464006 | C1296754 |
| SRT | L-808F4 | Smithfield dog breed | 132465007 | C1296755 |
| SRT | L-808F5 | Spanish Greyhound dog breed | 132466008 | C1296756 |
| SRT | L-808F6 | Armant dog breed | 132467004 | C1296757 |
| SRT | L-808F8 | Australian Greyhound dog breed | 132468009 | C1296758 |
| SRT | L-808F9 | Australian Terrier, rough-coated dog breed | 132469001 | C1296759 |
| SRT | L-808FA | Australian Terrier, silky dog breed | 132470000 | C1296760 |
| SRT | L-808FB | Austrian Hound dog breed | 132471001 | C1296761 |
| SRT | L-808FC | Austrian Smooth-Haired Bracke dog breed | 132472008 | C1296762 |
| SRT | L-808FD | Balkan Hound dog breed | 132473003 | C1296763 |
| SRT | L-808FE | Banjara greyhound dog breed | 132474009 | C1296764 |
| SRT | L-808FF | Beagle, Standard dog breed | 132475005 | C1296765 |
| SRT | L-80916 | Estrela Mountain Dog breed | 132476006 | C1296766 |
| SRT | L-80917 | Epagneul Picard dog breed | 132477002 | C1296767 |
| SRT | L-80918 | Epagneul Bleu de Picardie dog breed | 132478007 | C1296768 |
| SRT | L-80919 | Estonian Hound dog breed | 132479004 | C1296769 |
| SRT | L-80920 | Epagneul Pont-Audemer dog breed | 132480001 | C1296770 |
| SRT | L-80921 | Eurasian dog breed | 132481002 | C1296771 |
| SRT | L-80922 | Fell Terrier dog breed | 132482009 | C1296772 |
| SRT | L-80923 | Fila Brasileiro dog breed | 132483004 | C1296773 |
| SRT | L-80924 | Finnish Hound dog breed | 132484005 | C1296774 |
| SRT | L-80925 | Finnish Lapphund dog breed | 132485006 | C1296775 |
| SRT | L-80926 | Entlebucher dog breed | 132486007 | C1296776 |
| SRT | L-80927 | French Guard Dog breed | 132487003 | C1296777 |
| SRT | L-80928 | French Spaniel dog breed | 132488008 | C1296778 |
| SRT | L-80929 | Coton de Tuléar dog breed | 132489000 | C1296779 |
| SRT | L-80930 | Hamiltonstövare dog breed | 132490009 | C1296780 |
| SRT | L-80931 | Danish Broholmer dog breed | 132491008 | C1296781 |
| SRT | L-80932 | English Shepherd dog breed | 132492001 | C1296782 |
| SRT | L-80933 | Drentse Patsjshond dog breed | 132493006 | C1296783 |
| SRT | L-80934 | Dunker dog breed | 132494000 | C1296784 |
| SRT | L-80935 | Dutch Kooiker Dog breed | 132495004 | C1296785 |
| SRT | L-80936 | Dutch Shepherd dog breed | 132496003 | C1296786 |
| SRT | L-80937 | East Siberian Laika dog breed | 132497007 | C1296787 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | L-80938 | Deutsche bracke dog breed | 132498002 | C1296788 |
| SRT | L-80939 | Hanoverian Hound dog breed | 132499005 | C1296789 |
| SRT | L-80940 | Hovawart dog breed | 132500001 | C1296790 |
| SRT | L-80941 | Icelandic Sheepdog breed | 132501002 | C1296791 |
| SRT | L-80942 | Inca Hairless Dog breed | 132502009 | C1296792 |
| SRT | L-80943 | Irish Red and White Setter dog breed | 132503004 | C1296793 |
| SRT | L-80944 | Jagdterrier dog breed | 132504005 | C1296794 |
| SRT | L-80945 | German Spaniel dog breed | 132505006 | C1296795 |
| SRT | L-80946 | Grand Anglo-Français dog breed | 132506007 | C1296796 |
| SRT | L-80947 | Grand Bassett Griffon Vendeen dog breed | 132507003 | C1296797 |
| SRT | L-80948 | Grand Bleu de Gascogne dog breed | 132508008 | C1296798 |
| SRT | L-80949 | Grand Gascon-Saintongeois dog breed | 132509000 | C1296799 |
| SRT | L-80950 | German Pinscher dog breed | 132510005 | C1296800 |
| SRT | L-80951 | Greater Swiss Mountain Dog breed | 132511009 | C1296801 |
| SRT | L-80952 | Greenland Dog breed | 132512002 | C1296802 |
| SRT | L-80953 | Griffon Fauve de Bretegne dog breed | 132513007 | C1296803 |
| SRT | L-80954 | Griffon Nivernais dog breed | 132514001 | C1296804 |
| SRT | L-80955 | Grand Griffon Vendeen dog breed | 132515000 | C1296805 |
| SRT | L-80956 | Ainu dog breed | 132516004 | C1296806 |
| SRT | L-80957 | Basset Artésien Normand dog breed | 132517008 | C1296807 |
| SRT | L-80958 | Bavarian Mountain Hound dog breed | 132518003 | C1296808 |
| SRT | L-80959 | Beauceron dog breed | 132519006 | C1296809 |
| SRT | L-80960 | Azawakh dog breed | 132520000 | C1296810 |
| SRT | L-80961 | Australian Shepherd dog breed | 132521001 | C1296811 |
| SRT | L-80962 | Belgian Wolfhound dog breed | 132522008 | C1296812 |
| SRT | L-80963 | Bergamasco dog breed | 132523003 | C1296813 |
| SRT | L-80964 | Berger de Picard dog breed | 132524009 | C1296814 |
| SRT | L-80965 | Berger de Pyrenees dog breed | 132525005 | C1296815 |
| SRT | L-80966 | Billy dog breed | 132526006 | C1296816 |
| SRT | L-80967 | Belgian Griffon dog breed | 132527002 | C0324378 |
| SRT | L-80968 | American Hairless Terrier dog breed | 132528007 | C1296817 |
| SRT | L-80969 | Beagle, Elizabethan dog breed | 132529004 | C1296818 |
| SRT | L-80970 | Japanese Pointer dog breed | 132530009 | C1296819 |
| SRT | L-80971 | Akbash dog breed | 132531008 | C1296820 |
| SRT | L-80972 | Alapaha blueblood bullDog breed | 132532001 | C1296821 |
| SRT | L-80973 | Barbet dog breed | 132533006 | C1296822 |
| SRT | L-80974 | American Bulldog breed | 132534000 | C1296823 |
| SRT | L-80975 | Black Russian Terrier dog breed | 132535004 | C1296824 |
| SRT | L-80976 | Anglo-Francais de moyen venerie dog breed | 132536003 | C1296825 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-80977 | Anglo-Francais de petit venerie dog breed | 132537007 | C1296826 |
| SRT | L-80978 | Appenzeller dog breed | 132538002 | C1296827 |
| SRT | L-80979 | Ariégeois dog breed | 132539005 | C1321491 |
| SRT | L-80980 | Alano Español dog breed | 132540007 | C1321462 |
| SRT | L-80981 | Australian Kelpie dog breed | 132541006 | C1296828 |
| SRT | L-80982 | Alpine dachsbracke dog breed | 132542004 | C1296829 |
| SRT | L-80983 | Chien Français Blanc et Noir dog breed | 132543009 | C1321463 |
| SRT | L-80984 | Carolina Dog breed | 132544003 | C1296830 |
| SRT | L-80985 | Catahoula Leopard dog breed | 132545002 | C1296831 |
| SRT | L-80986 | Caucasian Mountain Dog breed | 132546001 | C1296832 |
| SRT | L-80987 | Cesky Fousek dog breed | 132547005 | C1296833 |
| SRT | L-80988 | Cesky Terrier dog breed | 132548000 | C1296834 |
| SRT | L-80989 | Chart Polski dog breed | 132549008 | C1296835 |
| SRT | L-80990 | Black Forest Hound dog breed | 132550008 | C1296836 |
| SRT | L-80991 | Chien d'Artois dog breed | 132551007 | C1296837 |
| SRT | L-80992 | Canaan dog breed | 132552000 | C1296838 |
| SRT | L-80993 | Chien Français Tricolore dog breed | 132553005 | C1321464 |
| SRT | L-80994 | Chinese Crested dog breed | 132554004 | C1296839 |
| SRT | L-80995 | Chinese Foo Dog breed | 132555003 | C1296840 |
| SRT | L-80996 | Chinese Imperial ch'in dog breed | 132556002 | C1296841 |
| SRT | L-80997 | Chinook dog breed | 132557006 | C1296842 |
| SRT | L-80998 | Chien Français Blanc et Orange dog breed | 132558001 | C1321465 |
| SRT | L-80999 | Braque Français de Grand Taille dog breed | 132559009 | C1296843 |
| SRT | L-809A1 | Bolognese dog breed | 132560004 | C1296844 |
| SRT | L-809A2 | Border Collie dog breed | 132561000 | C1296845 |
| SRT | L-809A3 | Bracco Italiano dog breed | 132562007 | C1296846 |
| SRT | L-809A4 | Cane Corso dog breed | 132563002 | C1296847 |
| SRT | L-809A5 | Braque du Bourbonnais dog breed | 132564008 | C1296848 |
| SRT | L-809A6 | Braque Francais de Petite Taille dog breed | 132565009 | C1296849 |
| SRT | L-809A7 | Braque Saint-Germain dog breed | 132566005 | C1296850 |
| SRT | L-809A8 | Briquet Basset Griffon Vendeen dog breed | 132567001 | C1296851 |
| SRT | L-809A9 | Black Mouth Cur dog breed | 132568006 | C1296852 |
| SRT | L-809AA | Braque d'Auvergne dog breed | 132569003 | C1296853 |
| SRT | L-809AB | Schapendoes dog breed | 132570002 | C1296854 |
| SRT | L-809AC | Sarplaninac dog breed | 132571003 | C1296855 |
| SRT | L-809AD | Russo-Laika dog breed | 132572005 | C1296856 |
| SRT | L-809AE | Bosnian Hound dog breed | 132573000 | C1296857 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-809AF | Rat Terrier dog breed | 132574006 | C1296858 |
| SRT | L-809B1 | Pumi dog breed | 132575007 | C1296859 |
| SRT | L-809B2 | Presa Canario dog breed | 132576008 | C1296860 |
| SRT | L-809B3 | Portuguese Pointer dog breed | 132577004 | C1296861 |
| SRT | L-809B4 | Porcelaine dog breed | 132578009 | C1296862 |
| SRT | L-809B5 | Shropshire Terrier dog breed | 132579001 | C1296863 |
| SRT | L-809B6 | Boykin Spaniel dog breed | 132580003 | C1296864 |
| SRT | L-809B7 | Southern Blackmouth Cur dog breed | 132581004 | C1296865 |
| SRT | L-809B8 | South Russian Ovcharka dog breed | 132582006 | C1296866 |
| SRT | L-809B9 | Small Spanish Hound dog breed | 132583001 | C1296867 |
| SRT | L-809BA | Small Münsterländer dog breed | 132584007 | C1321466 |
| SRT | L-809BB | Slovak Cuvak dog breed | 132585008 | C1296868 |
| SRT | L-809BC | Shiloh Shepherd dog breed | 132586009 | C1296869 |
| SRT | L-809BD | Shiba Inu dog breed | 132587000 | C1296870 |
| SRT | L-809BE | Welsh Sheepdog breed | 132588005 | C1296871 |
| SRT | L-809BF | Shar-pei dog breed | 132589002 | C1296872 |
| SRT | L-809C1 | Sloughi dog breed | 132590006 | C1296873 |
| SRT | L-809C2 | Owczarek Podhalanski dog breed | 132591005 | C1296874 |
| SRT | L-809C3 | Norbottenspets dog breed | 132592003 | C1296875 |
| SRT | L-809C4 | Norwegian Dunkerhound dog breed | 132593008 | C1296876 |
| SRT | L-809C5 | Old Danish Bird Dog breed | 132594002 | C1269305 |
| SRT | L-809C6 | Old Format Dachsund dog breed | 132595001 | C1269306 |
| SRT | L-809C7 | Old Format Manchester Terrier dog breed | 132596000 | C1269307 |
| SRT | L-809C8 | Old Format Min/Toy Poodle dog breed | 132597009 | C1269308 |
| SRT | L-809C9 | Old Format Welsh Corgi dog breed | 132598004 | C1269309 |
| SRT | L-809CA | Neopolitan Mastiff dog breed | 132599007 | C1269310 |
| SRT | L-809CB | Perdiguero de Burgos dog breed | 132600005 | C1296877 |
| SRT | L-809CC | Perdiguero Navarro dog breed | 132601009 | C1296878 |
| SRT | L-809CD | Peruvian Inca Orchid dog breed | 132602002 | C1269311 |
| SRT | L-809CE | Petit Bleu de Gascogne dog breed | 132603007 | C1296879 |
| SRT | L-809CF | Petit Gascon-Saintongeais dog breed | 132604001 | C1296880 |
| SRT | L-809D1 | Petit Griffon Bleu de Gascogne dog breed | 132605000 | C1296881 |
| SRT | L-809D2 | Olde English Bulldogge dog breed | 132606004 | C1296882 |
| SRT | L-809D3 | Löwchen dog breed | 132607008 | C1321467 |
| SRT | L-809D4 | Polski Owczarek Nizinny dog breed | 132608003 | C1296883 |
| SRT | L-809D5 | Polish Hound dog breed | 132609006 | C1296884 |
| SRT | L-809D6 | Poitevin dog breed | 132610001 | C1296885 |
| SRT | L-809D7 | Spanish Pointer dog breed | 132611002 | C1296886 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-809D8 | Kyi-Leo dog breed | 132612009 | C1296887 |
| SRT | L-809D9 | Large Spanish Hound dog breed | 132613004 | C1269312 |
| SRT | L-809DA | Lundehund dog breed | 132614005 | C1296888 |
| SRT | L-809DB | Lurcher Hound dog breed | 132615006 | C1269313 |
| SRT | L-809DC | Maremma Sheepdogs dog breed | 132616007 | C1269314 |
| SRT | L-809DD | McNab dog breed | 132617003 | C1296889 |
| SRT | L-809DE | Miniature Bull Terrier dog breed | 132618008 | C1269315 |
| SRT | L-809E1 | Mudi dog breed | 132620006 | C1296890 |
| SRT | L-809E2 | Munster Lander Pointer dog breed | 132621005 | C1269317 |
| SRT | L-809E3 | Loenberger dog breed | 132622003 | C1562740 |
| SRT | L-809E4 | Chi Terrier dog breed | 132623008 | C1296892 |
| SRT | L-809E5 | Krasky Ovcар dog breed | 132624002 | C1296893 |
| SRT | L-809E6 | Kromfohländer dog breed | 132625001 | C1321468 |
| SRT | L-809E7 | Havanese dog breed | 132626000 | C1296894 |
| SRT | L-809E8 | American lamalese dog breed | 132627009 | C1269318 |
| SRT | L-809EA | Norwegian Lundehund dog breed | 132629007 | C1269320 |
| SRT | L-809EB | North American Shepherd dog breed | 132630002 | C1296895 |
| SRT | L-809EC | Kyi Apso dog breed | 132631003 | C1296896 |
| SRT | L-809ED | Swedish Lapphund dog breed | 132632005 | C1269321 |
| SRT | L-809EE | Treeing Tennessee Brindle dog breed | 132633000 | C1296897 |
| SRT | L-809EF | Telomain dog breed | 132634006 | C1296898 |
| SRT | L-809F1 | Swedish Vallhund dog breed | 132635007 | C1269322 |
| SRT | L-809F2 | Stumpy Tail Cattle Dog breed | 132636008 | C1269323 |
| SRT | L-809F3 | Stabyhoun dog breed | 132637004 | C1296899 |
| SRT | L-809F4 | Spinone Italiano dog breed | 132638009 | C1296900 |
| SRT | L-809F5 | Spanish Mastiff dog breed | 132639001 | C1296901 |
| SRT | L-809F6 | Berger Shetland dog breed | 132640004 | C1296902 |
| SRT | L-809F7 | Thai Ridgeback dog breed | 132641000 | C1296903 |
| SRT | L-809F8 | Swiss Mountain Dog breed | 132642007 | C1269324 |
| SRT | L-809F9 | Tibetan Mastiff dog breed | 132643002 | C1296904 |
| SRT | L-809FA | Glen of Imaal Terrier dog breed | 132644008 | C1296905 |
| SRT | L-809FB | Tosa Inu dog breed | 132645009 | C1296906 |
| SRT | L-809FC | Toy Havanese Terrier dog breed | 132646005 | C1296907 |
| SRT | L-809FD | Treeing Cur dog breed | 132647001 | C1296908 |
| SRT | L-809FE | Treeing Feist dog breed | 132648006 | C1296909 |
| SRT | L-809FF | Greater Swiss Mountain Hound dog breed | 132649003 | C1269325 |
| SRT | L-80A70 | Harlequin cat breed | 132650003 | C1269326 |
| SRT | L-80A71 | Manxamese cat breed | 132651004 | C1296910 |
| SRT | L-80A73 | Maltese cat breed | 132652006 | C1296911 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-80A75 | Ragdoll cat breed | 132654007 | C1296912 |
| SRT | L-80A76 | Turkish van cat breed | 132655008 | C1269328 |
| SRT | L-80A77 | British Blue cat breed | 132656009 | C1269329 |
| SRT | L-80A78 | American Bobtail Shorthair cat breed | 132657000 | C1296913 |
| SRT | L-80A79 | American Bobtail Longhair cat breed | 132658005 | C1296914 |
| SRT | L-80A80 | American Curl cat breed | 132659002 | C1269330 |
| SRT | L-80A81 | Australian Mist cat breed | 132660007 | C1269331 |
| SRT | L-80A83 | Bengal cat breed | 132661006 | C1296915 |
| SRT | L-80A84 | Brazilian Shorthair cat breed | 132662004 | C1296916 |
| SRT | L-80A85 | California Spangled cat breed | 132663009 | C1269332 |
| SRT | L-80A86 | Chantilly/Tiffany cat breed | 132664003 | C1296917 |
| SRT | L-80A87 | Shorthair cat breed | 132665002 | C1296918 |
| SRT | L-80A88 | German Rex cat breed | 132666001 | C1269333 |
| SRT | L-80A89 | LaPerm Shorthair cat breed | 132667005 | C1296919 |
| SRT | L-80A90 | LaPerm Longhair cat breed | 132668000 | C1296920 |
| SRT | L-80A91 | Munchkin Shorthair cat breed | 132669008 | C1296921 |
| SRT | L-80A92 | Munchkin Longhair cat breed | 132670009 | C1296922 |
| SRT | L-80A93 | Nebelung cat breed | 132671008 | C1296923 |
| SRT | L-80A94 | Norwegian Forest cat breed | 132672001 | C1269334 |
| SRT | L-80A95 | Oriental Longhair cat breed | 132673006 | C1296924 |
| SRT | L-80A97 | Ragamuffin cat breed | 132675004 | C1296926 |
| SRT | L-80A99 | Selkirk Rex cat breed | 132676003 | C1296927 |
| SRT | L-80AA1 | Siberian cat breed | 132677007 | C1296928 |
| SRT | L-80AA2 | Snowshoe cat breed | 132678002 | C1269335 |
| SRT | L-80AA3 | Sokoke cat breed | 132679005 | C1296929 |
| SRT | L-80AA4 | Sphynx cat breed | 132680008 | C1269336 |
| SRT | L-80B01 | Bergamasca sheep breed | 132681007 | C1296930 |
| SRT | L-80B02 | Portland sheep breed | 132682000 | C1296931 |
| SRT | L-80B04 | Weisse Hornlose Heidschnucke sheep breed | 132684004 | C1296932 |
| SRT | L-80B05 | Drents Heideschaap sheep breed | 132685003 | C1296933 |
| SRT | L-80B06 | Kameroen sheep breed | 132686002 | C1296934 |
| SRT | L-80B07 | Mergelland sheep breed | 132687006 | C1296935 |
| SRT | L-80B08 | Ouessant sheep breed | 132688001 | C1296936 |
| SRT | L-80B09 | Canadian Arcott sheep breed | 132689009 | C1296937 |
| SRT | L-80B10 | Noordhollander sheep breed | 132690000 | C1296938 |
| SRT | L-80B17 | Rijnlam-A sheep breed | 132697002 | C1296940 |
| SRT | L-80B18 | Schoonebeker sheep breed | 132698007 | C1296941 |
| SRT | L-80B19 | Wallis Blacknosed Sheep breed | 132699004 | C1269341 |
| SRT | L-80B22 | Newfoundland sheep breed | 132701004 | C1296943 |
| SRT | L-80B23 | Wallis Country Sheep breed | 132702006 | C1269342 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-80B24 | Rideau Arcott sheep breed | 132703001 | C1296944 |
| SRT | L-80B25 | Tukidale sheep breed | 132704007 | C1296945 |
| SRT | L-80B26 | Polwarth sheep breed | 132705008 | C1296946 |
| SRT | L-80B27 | Ryeland sheep breed | 132706009 | C1296947 |
| SRT | L-80B2A | Thalli sheep breed | 132707000 | C1296948 |
| SRT | L-80B2B | Tong sheep breed | 132708005 | C1296949 |
| SRT | L-80B2C | Touabire sheep breed | 132709002 | C1296950 |
| SRT | L-80B2D | Tunis sheep breed | 132710007 | C1296951 |
| SRT | L-80B2E | Tyrol Mountain sheep breed | 132711006 | C1269343 |
| SRT | L-80B2F | Uda sheep breed | 132712004 | C1296952 |
| SRT | L-80B33 | German Mutton Merino sheep breed | 132716001 | C1296955 |
| SRT | L-80B34 | Medium-Wool Merino sheep breed | 132717005 | C1269345 |
| SRT | L-80B35 | Fonthill Merino sheep breed | 132718000 | C1296956 |
| SRT | L-80B36 | South African Mutton Merino sheep breed | 132719008 | C1269346 |
| SRT | L-80B37 | Strong Wool Merino sheep breed | 132720002 | C1269347 |
| SRT | L-80B38 | Poll Merino sheep breed | 132721003 | C1296957 |
| SRT | L-80B39 | Fine Merino sheep breed | 132722005 | C1296958 |
| SRT | L-80B3A | South African Merino sheep breed | 132723000 | C1296959 |
| SRT | L-80B40 | Superfine Merino sheep breed | 132724006 | C1296960 |
| SRT | L-80B47 | Baden Wurttemberg horse breed | 132731005 | C1296962 |
| SRT | L-80B48 | British Warmblood horse breed | 132732003 | C1296963 |
| SRT | L-80B49 | Israeli horse breed | 132733008 | C1296964 |
| SRT | L-80B4A | French Ardennais horse breed | 132734002 | C1296965 |
| SRT | L-80B4B | Booroola Merino sheep breed | 132735001 | C1296966 |
| SRT | L-80B50 | Cukurova horse breed | 132736000 | C1296967 |
| SRT | L-80B51 | Czech Coldblood horse breed | 132737009 | C1296968 |
| SRT | L-80B52 | Czechoslovakian Small Riding Horse horse breed | 132738004 | C1269353 |
| SRT | L-80B53 | Jianchang horse breed | 132739007 | C1296969 |
| SRT | L-80B54 | Jielin horse breed | 132740009 | C1296970 |
| SRT | L-80B55 | Wielkopolski horse breed | 132741008 | C1296971 |
| SRT | L-80B56 | Eleia horse breed | 132742001 | C1296972 |
| SRT | L-80B57 | English Cob horse breed | 132743006 | C1269354 |
| SRT | L-80B58 | Welsh Pony horse breed | 132744000 | C1296973 |
| SRT | L-80B59 | Welsh Pony of Cob Type horse breed | 132745004 | C1269355 |
| SRT | L-80B5A | English Hunter horse breed | 132746003 | C1269356 |
| SRT | L-80B5B | Eriskay Pony horse breed | 132747007 | C1296974 |
| SRT | L-80B5C | Hackney Pony horse breed | 132748002 | C1296975 |
| SRT | L-80B5D | Estonian Draft horse breed | 132749005 | C1296976 |
| SRT | L-80B5E | Heihe horse breed | 132750005 | C1296977 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | L-80B5F | Heilongkaing horse breed | 132751009 | C1296978 |
| SRT | L-80B65 | Danish Sport Pony horse breed | 132757008 | C1269357 |
| SRT | L-80B66 | Kabarda horse breed | 132758003 | C1296983 |
| SRT | L-80B67 | Kalmyk horse breed | 132759006 | C1296984 |
| SRT | L-80B68 | Mangalarga Marchador horse breed | 132760001 | C1296985 |
| SRT | L-80B69 | Don horse breed | 132761002 | C1296986 |
| SRT | L-80B6A | Manipuri horse breed | 132762009 | C1296987 |
| SRT | L-80B6B | Swiss Warmblood horse breed | 132763004 | C1296988 |
| SRT | L-80B6C | Tavda horse breed | 132764005 | C1296989 |
| SRT | L-80B6D | East Bulgarian horse breed | 132765006 | C1269358 |
| SRT | L-80B6E | East Friesian (Old Type) horse breed | 132766007 | C1269359 |
| SRT | L-80B6F | East Friesian Warmblood (Modern Type) horse breed | 132767003 | C1269360 |
| SRT | L-80B70 | Kakhetian pig breed | 132768008 | C1296990 |
| SRT | L-80B71 | West French White pig breed | 132769000 | C1269361 |
| SRT | L-80B80 | Miniature Hereford cattle breed | 132770004 | C1269362 |
| SRT | L-80B81 | Jem-Jem Zebu cattle breed | 132771000 | C1296991 |
| SRT | L-80B82 | Minusin horse breed | 132772007 | C1296992 |
| SRT | L-80B83 | Morochuco horse breed | 132773002 | C1296993 |
| SRT | L-80B84 | French Trotter horse breed | 132774008 | C1296994 |
| SRT | L-80B85 | Furioso horse breed | 132775009 | C1296995 |
| SRT | L-80B86 | Murghese horse breed | 132776005 | C1269363 |
| SRT | L-80B87 | Mytilene horse breed | 132777001 | C1269364 |
| SRT | L-80B88 | Namib Desert Horse horse breed | 132778006 | C1296996 |
| SRT | L-80B89 | Danish Oldenborg horse breed | 132779003 | C1296997 |
| SRT | L-80B8A | Volynsk cattle breed | 132780000 | C1296998 |
| SRT | L-80B8B | Senepol cattle breed | 132781001 | C1296999 |
| SRT | L-80B8C | Shilluk cattle breed | 132782008 | C1297000 |
| SRT | L-80B8D | Sar Planina sheep breed | 132783003 | C1297001 |
| SRT | L-80B8E | Santa Inês sheep breed | 132784009 | C1321470 |
| SRT | L-80B8F | Sahel-type sheep breed | 132785005 | C1297002 |
| SRT | L-80B90 | Rygja sheep breed | 132786006 | C1297003 |
| SRT | L-80B91 | Rya sheep breed | 132787002 | C1297004 |
| SRT | L-80B92 | Moghani sheep breed | 132788007 | C1297005 |
| SRT | L-80B93 | Rouge de l'Quest sheep breed | 132789004 | C1297006 |
| SRT | L-80B94 | Soay sheep breed | 132790008 | C1297007 |
| SRT | L-80B95 | South Suffolk sheep breed | 132791007 | C1269365 |
| SRT | L-80B96 | South Wales Mountain sheep breed | 132792000 | C1269366 |
| SRT | L-80B97 | Spælsau sheep breed | 132793005 | C1321471 |
| SRT | L-80B98 | Spiegel sheep breed | 132794004 | C1297008 |
| SRT | L-80B99 | St. Croix sheep breed | 132795003 | C1297009 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | L-80B9A | Steigar sheep breed | 132796002 | C1297010 |
| SRT | L-80B9B | Steinschaf sheep breed | 132797006 | C1297011 |
| SRT | L-80B9C | Welsh Mountain sheep breed | 132798001 | C1269367 |
| SRT | L-80B9D | Swedish Fur Sheep breed | 132799009 | C1269368 |
| SRT | L-80B9E | Teeswater sheep breed | 132800008 | C1297012 |
| SRT | L-80B9F | Texel sheep breed | 132801007 | C1297013 |
| SRT | L-80BA1 | Pelibüey sheep breed | 132802000 | C1321472 |
| SRT | L-80BA2 | Morada Nova sheep breed | 132803005 | C1297014 |
| SRT | L-80BA3 | Balkhi sheep breed | 132804004 | C1297015 |
| SRT | L-80BA4 | Bavarian Forest sheep breed | 132805003 | C1269369 |
| SRT | L-80BA5 | Barbados Blackbelly sheep breed | 132806002 | C1269370 |
| SRT | L-80BA6 | Romney sheep breed | 132807006 | C1297016 |
| SRT | L-80BA7 | Awassi sheep breed | 132808001 | C1297017 |
| SRT | L-80BA8 | Arapawa Island sheep breed | 132809009 | C1297018 |
| SRT | L-80BA9 | Arabi sheep breed | 132810004 | C1297019 |
| SRT | L-80BB1 | Apennine sheep breed | 132811000 | C1269371 |
| SRT | L-80BB2 | American Tunis sheep breed | 132812007 | C1269372 |
| SRT | L-80BB3 | Balwen Welsh Mountain sheep breed | 132813002 | C1269373 |
| SRT | L-80BB4 | Priangan sheep breed | 132814008 | C1269374 |
| SRT | L-80BB5 | Rabo Largo sheep breed | 132815009 | C1297020 |
| SRT | L-80BE6 | Muban pig breed | 132843000 | C1297039 |
| SRT | L-80BE7 | Iban pig breed | 132844006 | C1297040 |
| SRT | L-80BE8 | Altay sheep breed | 132845007 | C1297041 |
| SRT | L-80BE9 | Faeroes sheep breed | 132846008 | C1297042 |
| SRT | L-80BF6 | Pitt Island sheep breed | 132849001 | C1269382 |
| SRT | L-80BF8 | Pinzirita sheep breed | 132851002 | C1297044 |
| SRT | L-80BF9 | Sardinian sheep breed | 132852009 | C1297045 |
| SRT | L-80C01 | East Friesian sheep breed | 132853004 | C1269384 |
| SRT | L-80C02 | Ujumqin sheep breed | 132854005 | C1297046 |
| SRT | L-80C22 | DLS sheep breed | 132855006 | C1297047 |
| SRT | L-80C23 | Walachenschaf sheep breed | 132856007 | C1297048 |
| SRT | L-80C24 | Outaouais Arcott sheep breed | 132857003 | C1297049 |
| SRT | L-80C25 | Ossimi sheep breed | 132858008 | C1297050 |
| SRT | L-80C29 | Bentheimer Landschaf sheep breed | 132859000 | C1297051 |
| SRT | L-80C30 | Barbado sheep breed | 132860005 | C1297052 |
| SRT | L-80C31 | Baluchi sheep breed | 132861009 | C1297053 |
| SRT | L-86B36 | Blanc de Bouscat rabbit breed | 132888004 | C1297065 |
| SRT | L-8A111 | American Indian Horse horse breed | 132951001 | C1297111 |
| SRT | L-8A112 | American Mustang horse breed | 132952008 | C1297112 |
| SRT | L-8A113 | American Quarter Horse horse breed | 132953003 | C1297113 |
| SRT | L-8A115 | American Shetland pony horse breed | 132954009 | C1297114 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | L-8A116 | Anadolu horse breed | 132955005 | C1297115 |
| SRT | L-8A117 | Andean horse breed | 132956006 | C1297116 |
| SRT | L-8A118 | Anglo-Kabarda horse breed | 132957002 | C1297117 |
| SRT | L-8A125 | Narym horse breed | 132960009 | C1297120 |
| SRT | L-8A126 | National Spotted Saddle Horse horse breed | 132961008 | C1297121 |
| SRT | L-8A127 | Nigerian horse breed | 132962001 | C1297122 |
| SRT | L-8A128 | North Swedish Trotter horse breed | 132963006 | C1297123 |
| SRT | L-8A129 | Oriental Horse horse breed | 132964000 | C1297124 |
| SRT | L-8A12A | Rhineland Heavy Draft horse breed | 132965004 | C1297125 |
| SRT | L-8A12B | Romanian Saddle Horse horse breed | 132966003 | C1297126 |
| SRT | L-8A12C | Rottal horse breed | 132967007 | C1297127 |
| SRT | L-8A12D | Royal Canadian Mounted Police Horse horse breed | 132968002 | C1297128 |
| SRT | L-8A12E | Russian Saddle Horse horse breed | 132969005 | C1297129 |
| SRT | L-8A12F | Sable Island Horse horse breed | 132970006 | C1297130 |
| SRT | L-8A130 | Panje horse breed | 132971005 | C1297131 |
| SRT | L-8A131 | Patibarcina horse breed | 132972003 | C1297132 |
| SRT | L-8A132 | Pechora horse breed | 132973008 | C1297133 |
| SRT | L-8A133 | Peneia horse breed | 132974002 | C1297134 |
| SRT | L-8A134 | Periangan horse breed | 132975001 | C1297135 |
| SRT | L-8A135 | Persian Arab horse breed | 132976000 | C1297136 |
| SRT | L-8A136 | Petiso Argentino horse breed | 132977009 | C1297137 |
| SRT | L-8A137 | Polish Draft horse breed | 132978004 | C1297138 |
| SRT | L-8A138 | Priob horse breed | 132979007 | C1297139 |
| SRT | L-8A139 | Rahvan horse breed | 132980005 | C1297140 |
| SRT | L-8A13A | Salerno horse breed | 132981009 | C1297141 |
| SRT | L-8A13B | Sandalwood horse breed | 132982002 | C1297142 |
| SRT | L-8A13C | Sandan horse breed | 132983007 | C1297143 |
| SRT | L-8A13D | Pindos horse breed | 132984001 | C1297144 |
| SRT | L-8A13E | Piquira Pony horse breed | 132985000 | C1297145 |
| SRT | L-8A13F | Pleven horse breed | 132986004 | C1297146 |
| SRT | L-8A14A | Garrano tarpan horse X domestic horse breed | 132990002 | C1297150 |
| SRT | L-8A14B | Konink tarpan horse X domestic horse breed | 132991003 | C1297151 |
| SRT | L-8A14C | Asturian tarpan horse X domestic horse breed | 132992005 | C1297152 |
| SRT | L-8A14D | Pottok tarpan horse X domestic horse breed | 132993000 | C1297153 |
| SRT | L-8A150 | Russian Trotter horse breed | 132994006 | C1297154 |
| SRT | L-8A151 | West African Barb horse breed | 132995007 | C1297155 |
| SRT | L-8A152 | Fell Pony horse breed | 132996008 | C1297156 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | L-8A153 | National Show Horse horse breed | 132997004 | C1297157 |
| SRT | L-8A154 | Zhemaichu horse breed | 132998009 | C1297158 |
| SRT | L-8A155 | Yonaguni horse breed | 132999001 | C1297159 |
| SRT | L-8A156 | Yakut horse breed | 133000000 | C1297160 |
| SRT | L-8A157 | Tawleed horse breed | 133001001 | C1297161 |
| SRT | L-8A158 | Western Sudan Pony horse breed | 133002008 | C1297162 |
| SRT | L-8A159 | Welera Pony horse breed | 133003003 | C1297163 |
| SRT | L-8A15A | Vyatka horse breed | 133004009 | C1297164 |
| SRT | L-8A15B | Vladimir Heavy Draft horse breed | 133005005 | C1297165 |
| SRT | L-8A15C | Vlaamperd horse breed | 133006006 | C1297166 |
| SRT | L-8A15D | Ukrainian Saddle Horse horse breed | 133007002 | C1297167 |
| SRT | L-8A15E | Tori horse breed | 133008007 | C1297168 |
| SRT | L-8A15F | Tokara horse breed | 133009004 | C1297169 |
| SRT | L-8A160 | New Kirgiz horse breed | 133010009 | C1297170 |
| SRT | L-8A161 | Oldenburg horse breed | 133011008 | C1297171 |
| SRT | L-8A162 | Misaki horse breed | 133012001 | C1297172 |
| SRT | L-8A163 | Miyako horse breed | 133013006 | C1297173 |
| SRT | L-8A164 | Mongolian horse breed | 133014000 | C1321685 |
| SRT | L-8A165 | Waler horse breed | 133015004 | C1297174 |
| SRT | L-8A166 | Dutch Draft horse breed | 133016003 | C1297175 |
| SRT | L-8A167 | Egyptian horse breed | 133017007 | C1297176 |
| SRT | L-8A168 | Estonian Native horse breed | 133018002 | C1297177 |
| SRT | L-8A169 | Exmoor Pony horse breed | 133019005 | C1297178 |
| SRT | L-8A16A | Faeroes Island Horse horse breed | 133020004 | C1297179 |
| SRT | L-8A16B | Falabella horse breed | 133021000 | C1297180 |
| SRT | L-8A16C | Dutch Warmblood horse breed | 133022007 | C1297181 |
| SRT | L-8A16D | Dongola horse breed | 133023002 | C1297182 |
| SRT | L-8A16E | Døle horse breed | 133024008 | C1321476 |
| SRT | L-8A16F | Djerma horse breed | 133025009 | C1297183 |
| SRT | L-8A170 | Deliboz horse breed | 133026005 | C1297184 |
| SRT | L-8A171 | Dartmoor Pony horse breed | 133027001 | C1297185 |
| SRT | L-8A172 | Crioulo horse breed | 133028006 | C1297186 |
| SRT | L-8A173 | Finnhorse horse breed | 133029003 | C1297187 |
| SRT | L-8A174 | Sanfratello horse breed | 133030008 | C1297188 |
| SRT | L-8A175 | Morab horse breed | 133031007 | C1297189 |
| SRT | L-8A176 | Moyle horse breed | 133032000 | C1297190 |
| SRT | L-8A177 | Mustang horse breed | 133033005 | C1297191 |
| SRT | L-8A178 | M'Bayar horse breed | 133034004 | C1297192 |
| SRT | L-8A179 | Lusitano horse breed | 133035003 | C1297193 |
| SRT | L-8A17A | Newfoundland Pony horse breed | 133036002 | C1297194 |
| SRT | L-8A17B | Noma horse breed | 133037006 | C1297195 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | L-8A17C | Nooitgedacht Pony horse breed | 133038001 | C1297196 |
| SRT | L-8A17D | Nordland horse breed | 133039009 | C1297197 |
| SRT | L-8A17E | Noric horse breed | 133040006 | C1297198 |
| SRT | L-8A17F | North Swedish Horse horse breed | 133041005 | C1297199 |
| SRT | L-8A180 | Northeastern horse breed | 133042003 | C1297200 |
| SRT | L-8A181 | Kisber Felver horse breed | 133043008 | C1297201 |
| SRT | L-8A182 | Anglo-Arab horse breed | 133044002 | C1297202 |
| SRT | L-8A183 | Nonius horse breed | 133045001 | C1297203 |
| SRT | L-8A184 | Nooitgedacht horse breed | 133046000 | C1297204 |
| SRT | L-8A185 | Iomud horse breed | 133047009 | C1297205 |
| SRT | L-8A186 | Jutland horse breed | 133048004 | C1297206 |
| SRT | L-8A187 | Karabair horse breed | 133049007 | C1297207 |
| SRT | L-8A188 | Karabakh horse breed | 133050007 | C1297208 |
| SRT | L-8A189 | Kazakh horse breed | 133051006 | C1297209 |
| SRT | L-8A18A | Mangalarga horse breed | 133052004 | C1297210 |
| SRT | L-8A18B | Kirdi Pony horse breed | 133053009 | C1297211 |
| SRT | L-8A18C | Kiso horse breed | 133054003 | C1297212 |
| SRT | L-8A18D | Kladruby horse breed | 133055002 | C1297213 |
| SRT | L-8A18E | Knabstrup horse breed | 133056001 | C1297214 |
| SRT | L-8A18F | Kushum horse breed | 133057005 | C1297215 |
| SRT | L-8A190 | Kustanai horse breed | 133058000 | C1297216 |
| SRT | L-8A191 | Latvian horse breed | 133059008 | C1297217 |
| SRT | L-8A192 | Lithuanian Heavy Draft horse breed | 133060003 | C1297218 |
| SRT | L-8A193 | Lokai horse breed | 133061004 | C1297219 |
| SRT | L-8A194 | Kiger Mustang horse breed | 133062006 | C1297220 |
| SRT | L-8A195 | Pony of the Americas horse breed | 133063001 | C1297221 |
| SRT | L-8A196 | Pintabian horse breed | 133064007 | C1297222 |
| SRT | L-8A197 | Pantaneiro horse breed | 133065008 | C1297223 |
| SRT | L-8A198 | Orlov Trotter horse breed | 133066009 | C1297224 |
| SRT | L-8A199 | Northern Ardennais horse breed | 133067000 | C1297225 |
| SRT | L-8A19A | Abtenauer horse breed | 133068005 | C1297226 |
| SRT | L-8A19B | Adaev horse breed | 133069002 | C1297227 |
| SRT | L-8A19C | Albanian horse breed | 133070001 | C1297228 |
| SRT | L-8A19E | Alter Real horse breed | 133071002 | C1297229 |
| SRT | L-8A19F | American Bashkir Curly horse breed | 133072009 | C1297230 |
| SRT | L-8A1A1 | Poitou Mule Producer horse breed | 133073004 | C1297231 |
| SRT | L-8A1A2 | Polesian horse breed | 133074005 | C1297232 |
| SRT | L-8A1A3 | Sardinian Anglo-Arab horse breed | 133075006 | C1297233 |
| SRT | L-8A1A4 | Sardinian Pony horse breed | 133076007 | C1297234 |
| SRT | L-8A1A5 | Sarvar horse breed | 133077003 | C1297235 |
| SRT | L-8A1A6 | Schleswig horse breed | 133078008 | C1297236 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-8A1A7 | Schwarzwald Fuchse horse breed | 133079000 | C1297237 |
| SRT | L-8A1A8 | Senne horse breed | 133080002 | C1297238 |
| SRT | L-8A1A9 | Shan horse breed | 133081003 | C1297239 |
| SRT | L-8A1AA | Silesian horse breed | 133082005 | C1297240 |
| SRT | L-8A1AB | Sini horse breed | 133083000 | C1297241 |
| SRT | L-8A1AC | Skyros horse breed | 133084006 | C1297242 |
| SRT | L-8A1AD | Slovak Warmblood horse breed | 133085007 | C1297243 |
| SRT | L-8A1AE | Sokolka horse breed | 133086008 | C1297244 |
| SRT | L-8A1AF | South African Miniature horse breed | 133087004 | C1297245 |
| SRT | L-8A1B1 | South German Coldblood horse breed | 133088009 | C1297246 |
| SRT | L-8A1B2 | Southwest Spanish Mustang horse breed | 133089001 | C1297247 |
| SRT | L-8A1B4 | Spanish-American Horse horse breed | 133090005 | C1297248 |
| SRT | L-8A1B5 | Spanish Anglo-Arab horse breed | 133091009 | C1297249 |
| SRT | L-8A1B6 | Spanish Colonial Horse horse breed | 133092002 | C1297250 |
| SRT | L-8A1B7 | Spiti horse breed | 133093007 | C1297251 |
| SRT | L-8A1B8 | Sulawesi horse breed | 133094001 | C1297252 |
| SRT | L-8A1B9 | Criollo horse breed | 133095000 | C1297253 |
| SRT | L-8A1BA | Hequ horse breed | 133096004 | C1297254 |
| SRT | L-8A1BB | Connemara Pony horse breed | 133097008 | C1297255 |
| SRT | L-8A1BC | Colorado Ranger horse breed | 133098003 | C1297256 |
| SRT | L-8A1BD | Dales Pony horse breed | 133099006 | C1297257 |
| SRT | L-8A1BE | Gotland horse breed | 133100003 | C1297258 |
| SRT | L-8A1BF | Chincoteague Pony horse breed | 133101004 | C1297259 |
| SRT | L-8A1C1 | Hokkaido horse breed | 133102006 | C1297260 |
| SRT | L-8A1C2 | Highland Pony horse breed | 133103001 | C1297261 |
| SRT | L-8A1C3 | Groningen horse breed | 133104007 | C1297262 |
| SRT | L-8A1C4 | Cuban Pinto horse breed | 133105008 | C1297263 |
| SRT | L-8A1C5 | Fleuve horse breed | 133106009 | C1297264 |
| SRT | L-8A1C6 | Golden American Saddlebred horse breed | 133107000 | C1297265 |
| SRT | L-8A1C7 | Gidran horse breed | 133108005 | C1297266 |
| SRT | L-8A1C8 | Gelderland horse breed | 133109002 | C1320153 |
| SRT | L-8A1C9 | Galician Pony horse breed | 133110007 | C1297267 |
| SRT | L-8A1CA | Friesian horse breed | 133111006 | C1297268 |
| SRT | L-8A1CB | Frederiksborg horse breed | 133112004 | C1297269 |
| SRT | L-8A1CC | Fouta horse breed | 133113009 | C1297270 |
| SRT | L-8A1CD | Florida Cracker horse breed | 133114003 | C1297271 |
| SRT | L-8A1CE | Guangxi horse breed | 133115002 | C1297272 |
| SRT | L-8A1CF | Ardenne horse breed | 133116001 | C1297273 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | L-8A1D1 | American Walking Pony horse breed | 133117005 | C1297274 |
| SRT | L-8A1D2 | Azteca horse breed | 133118000 | C1297275 |
| SRT | L-8A1D3 | American Cream Draft horse breed | 133119008 | C1297276 |
| SRT | L-8A1D4 | Altai horse breed | 133120002 | C1297277 |
| SRT | L-8A1D5 | Akhal-Teke horse breed | 133121003 | C1297278 |
| SRT | L-8A1D6 | Abyssinian horse breed | 133122005 | C1297279 |
| SRT | L-8A1D7 | Bhirum Pony horse breed | 133123000 | C1297280 |
| SRT | L-8A1D8 | Cheju horse breed | 133124006 | C1297281 |
| SRT | L-8A1D9 | Cayuse horse breed | 133125007 | C1297282 |
| SRT | L-8A1DA | Caspian horse breed | 133126008 | C1297283 |
| SRT | L-8A1DB | Carthusian horse breed | 133127004 | C1297284 |
| SRT | L-8A1DC | Campolina horse breed | 133128009 | C1297285 |
| SRT | L-8A1DD | Byelorussian Harness horse breed | 133129001 | C1297286 |
| SRT | L-8A1DE | Budyonny horse breed | 133130006 | C1297287 |
| SRT | L-8A1DF | Australian Brumby horse breed | 133131005 | C1297288 |
| SRT | L-8A1E1 | Australian Stock Horse horse breed | 133132003 | C1297289 |
| SRT | L-8A1E2 | Basuto Pony horse breed | 133133008 | C1297290 |
| SRT | L-8A1E3 | Bashkir Curly horse breed | 133134002 | C1297291 |
| SRT | L-8A1E4 | Bashkir horse breed | 133135001 | C1297292 |
| SRT | L-8A1E5 | Barb horse breed | 133136000 | C1297293 |
| SRT | L-8A1E6 | Ban-ei horse breed | 133137009 | C1297294 |
| SRT | L-8A1E7 | Carpathian Pony horse breed | 133138004 | C1297295 |
| SRT | L-8A1E8 | Baluchi horse breed | 133139007 | C1297296 |
| SRT | L-8A1E9 | Balearic horse breed | 133140009 | C1297297 |
| SRT | L-8A1EA | Chilean Corralero horse breed | 133141008 | C1297298 |
| SRT | L-8A1EB | Breton horse breed | 133142001 | C1297299 |
| SRT | L-8A1EC | Taishuh horse breed | 133143006 | C1297300 |
| SRT | L-8A1ED | Swedish Warmblood horse breed | 133144000 | C1297301 |
| SRT | L-8A1EE | Sudan Country-Bred horse breed | 133145004 | C1297302 |
| SRT | L-8A1EF | Spanish-Norman horse breed | 133146003 | C1297303 |
| SRT | L-8A1F1 | Spanish Barb horse breed | 133147007 | C1297304 |
| SRT | L-8A1F2 | Soviet Heavy Draft horse breed | 133148002 | C1297305 |
| SRT | L-8A1F3 | Sorraia horse breed | 133149005 | C1297306 |
| SRT | L-8A1F4 | Somali Pony horse breed | 133150005 | C1297307 |
| SRT | L-8A1F5 | Tersk horse breed | 133151009 | C1297308 |
| SRT | L-8A1F6 | Shagya horse breed | 133152002 | C1297309 |
| SRT | L-8A1F7 | Selle Francais horse breed | 133153007 | C1297310 |
| SRT | L-8A1F8 | Sanhe horse breed | 133154001 | C1297311 |
| SRT | L-8A1FA | Russian Heavy Draft horse breed | 133155000 | C1297312 |
| SRT | L-8A1FB | Rocky Mountain Horse horse breed | 133156004 | C1297313 |
| SRT | L-8A1FC | Racking Horse horse breed | 133157008 | C1297314 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-8A1FD | Quarter Pony horse breed | 133158003 | C1297315 |
| SRT | L-8A1FE | Quarab horse breed | 133159006 | C1297316 |
| SRT | L-8A1FF | Single-Footing Horse horse breed | 133160001 | C1297317 |
| SRT | L-8B105 | Tuy Hoa Hairless pig breed | 133161002 | C1297318 |
| SRT | L-8B106 | Hainan pig breed | 133162009 | C1297319 |
| SRT | L-8B107 | Sino-Vietnamese pig breed | 133163004 | C1297320 |
| SRT | L-8B108 | Bo Xu pig breed | 133164005 | C1297321 |
| SRT | L-8B109 | Thuoc Nhieu pig breed | 133165006 | C1297322 |
| SRT | L-8B111 | Burmese pig breed | 133166007 | C1297323 |
| SRT | L-8B112 | Chin pig breed | 133167003 | C1297324 |
| SRT | L-8B113 | Siamese pig breed | 133168008 | C1297325 |
| SRT | L-8B114 | Hailum pig breed | 133169000 | C1297326 |
| SRT | L-8B115 | Kwai pig breed | 133170004 | C1297327 |
| SRT | L-8B116 | Raad pig breed | 133171000 | C1297328 |
| SRT | L-8B117 | Akha pig breed | 133172007 | C1297329 |
| SRT | L-8B118 | South China pig breed | 133173002 | C1297330 |
| SRT | L-8B119 | South China Black pig breed | 133174008 | C1297331 |
| SRT | L-8B121 | Balinese pig breed | 133175009 | C1297332 |
| SRT | L-8B122 | Diani pig breed | 133176005 | C1297333 |
| SRT | L-8B123 | Kaman pig breed | 133177001 | C1297334 |
| SRT | L-8B124 | Ashanti Dwarf pig breed | 133178006 | C1297335 |
| SRT | L-8B125 | Koronadal pig breed | 133179003 | C1297336 |
| SRT | L-8B126 | Ohmini pig breed | 133180000 | C1297337 |
| SRT | L-8B127 | Clawn pig breed | 133181001 | C1297338 |
| SRT | L-8B128 | Inobuta (inter-species hybrid) pig breed | 133182008 | C1297339 |
| SRT | L-8B129 | Kangaroo Island pig breed | 133183003 | C1297340 |
| SRT | L-8B130 | Captain Cooker pig breed | 133184009 | C1297341 |
| SRT | L-8B131 | West African pig breed | 133185005 | C1297342 |
| SRT | L-8B132 | Nigerian pig breed | 133186006 | C1297343 |
| SRT | L-8B133 | Bakosi pig breed | 133187002 | C1297344 |
| SRT | L-8B134 | Windsnyer pig breed | 133188007 | C1297345 |
| SRT | L-8B135 | Kolbroek pig breed | 133189004 | C1297346 |
| SRT | L-8B136 | South African Landrace pig breed | 133190008 | C1297347 |
| SRT | L-8B137 | Bulgarian White pig breed | 133191007 | C1297348 |
| SRT | L-8B139 | Bulgarian Landrace pig breed | 133192000 | C1297349 |
| SRT | L-8B140 | Danube White pig breed | 133193005 | C1297350 |
| SRT | L-8B141 | Dermantsi Pied pig breed | 133194004 | C1297351 |
| SRT | L-8B142 | Romanian Native, Stocli pig breed | 133195003 | C1297352 |
| SRT | L-8B143 | Romanian Native, Baltaret pig breed | 133196002 | C1297353 |
| SRT | L-8B144 | Banat White pig breed | 133197006 | C1297354 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | L-8B145 | Bazna pig breed | 133198001 | C1297355 |
| SRT | L-8B146 | Dobrogea Black pig breed | 133199009 | C1297356 |
| SRT | L-8B147 | Strei pig breed | 133200007 | C1297357 |
| SRT | L-8B148 | Romanian Large White pig breed | 133201006 | C1297358 |
| SRT | L-8B149 | Romanian Meat Pig pig breed | 133202004 | C1297359 |
| SRT | L-8B150 | Gurktal pig breed | 133203009 | C1297360 |
| SRT | L-8B151 | Black Slavonian pig breed | 133204003 | C1296522 |
| SRT | L-8B152 | Resava pig breed | 133205002 | C1297361 |
| SRT | L-8B153 | Morava pig breed | 133206001 | C1297362 |
| SRT | L-8B155 | Dzumalia pig breed | 133207005 | C1297363 |
| SRT | L-8B156 | Macedonian pig breed | 133208000 | C1297364 |
| SRT | L-8B157 | Albanian Native pig breed | 133209008 | C1297365 |
| SRT | L-8B158 | Shkodra pig breed | 133210003 | C1297366 |
| SRT | L-8B159 | Slovenian White pig breed | 133211004 | C1297367 |
| SRT | L-8B160 | Subotica White pig breed | 133212006 | C1297368 |
| SRT | L-8B161 | Prestice pig breed | 133213001 | C1297369 |
| SRT | L-8B162 | Slovakian Black Pied pig breed | 133214007 | C1297370 |
| SRT | L-8B163 | Czech Improved White pig breed | 133215008 | C1297371 |
| SRT | L-8B164 | Moravian Large Yorkshire pig breed | 133216009 | C1297372 |
| SRT | L-8B165 | Slovakian White pig breed | 133217000 | C1297373 |
| SRT | L-8B166 | Slovhyb-1 pig breed | 133218005 | C1297374 |
| SRT | L-8B167 | Nitra Hybrid pig breed | 133219002 | C1297375 |
| SRT | L-8B168 | Synthetic SL98 pig breed | 133220008 | C1297376 |
| SRT | L-8B169 | SL96 pig breed | 133221007 | C1297377 |
| SRT | L-8B170 | Czech Meat pig breed | 133222000 | C1297378 |
| SRT | L-8B171 | Czech Miniature pig breed | 133223005 | C1297379 |
| SRT | L-8B172 | Small Polish Prick-Eared pig breed | 133224004 | C1297380 |
| SRT | L-8B173 | Polesian pig breed | 133225003 | C1297381 |
| SRT | L-8B174 | Nadbuzanska pig breed | 133226002 | C1297382 |
| SRT | L-8B175 | Sarny pig breed | 133227006 | C1297383 |
| SRT | L-8B176 | Krolevets pig breed | 133228001 | C1297384 |
| SRT | L-8B177 | Polish Marsh pig breed | 133229009 | C1297385 |
| SRT | L-8B178 | Large Polish Long-Eared pig breed | 133230004 | C1297386 |
| SRT | L-8B958 | Herens cattle breed | 133231000 | C1297387 |
| SRT | L-8B959 | Hinterwald cattle breed | 133232007 | C1297388 |
| SRT | L-8B95A | Hungarian Gray cattle breed | 133233002 | C1297389 |
| SRT | L-8B95B | Icelandic cattle breed | 133234008 | C1297390 |
| SRT | L-8B95C | Illawarra cattle breed | 133235009 | C1297391 |
| SRT | L-8B95D | Irish Moiled cattle breed | 133236005 | C1297392 |
| SRT | L-8B95E | Israeli Holstein cattle breed | 133237001 | C1297393 |
| SRT | L-8B95F | Istoben cattle breed | 133238006 | C1297394 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | L-8B961 | Jaulan cattle breed | 133239003 | C1297395 |
| SRT | L-8B962 | Kazakh cattle breed | 133240001 | C1297396 |
| SRT | L-8B963 | Kerry cattle breed | 133241002 | C1297397 |
| SRT | L-8B964 | Kholmogory cattle breed | 133242009 | C1297398 |
| SRT | L-8B966 | Latvian Brown cattle breed | 133243004 | C1297399 |
| SRT | L-8B967 | Lincoln Red Shorthorn cattle breed | 133244005 | C1297400 |
| SRT | L-8B968 | Lithuanian Red cattle breed | 133245006 | C1297401 |
| SRT | L-8B969 | Mashona cattle breed | 133246007 | C1297402 |
| SRT | L-8B96A | Milking Devon cattle breed | 133247003 | C1297403 |
| SRT | L-8B96B | Mirandesa cattle breed | 133248008 | C1297404 |
| SRT | L-8B96C | Mixed dairy cattle breed | 133249000 | C1297405 |
| SRT | L-8B96D | Mongolian cattle breed | 133250000 | C1297406 |
| SRT | L-8B96E | Morucha cattle breed | 133251001 | C1297407 |
| SRT | L-8B96F | Kurdi cattle breed | 133252008 | C1297408 |
| SRT | L-8B971 | N'dama cattle breed | 133253003 | C1297409 |
| SRT | L-8B972 | Norwegian Red cattle breed | 133254009 | C1297410 |
| SRT | L-8B973 | Parthenais cattle breed | 133255005 | C1297411 |
| SRT | L-8B974 | Polish Red cattle breed | 133256006 | C1297412 |
| SRT | L-8B975 | Rätien Gray cattle breed | 133257002 | C1321477 |
| SRT | L-8B976 | Red and White cattle breed | 133258007 | C1297413 |
| SRT | L-8B977 | Red Angus cattle breed | 133259004 | C1297414 |
| SRT | L-8B978 | Red Polled Østland cattle breed | 133260009 | C1321478 |
| SRT | L-8B979 | Red Steppe cattle breed | 133261008 | C1297415 |
| SRT | L-8B97A | Reggiana cattle breed | 133262001 | C1297416 |
| SRT | L-8B97B | Retinta cattle breed | 133263006 | C1297417 |
| SRT | L-8B97C | Romosinuano cattle breed | 133264000 | C1297418 |
| SRT | L-8B97D | Russian Black Pied cattle breed | 133265004 | C1297419 |
| SRT | L-8B97E | RX3 cattle breed | 133266003 | C1297420 |
| SRT | L-8B97F | Salorn cattle breed | 133267007 | C1297421 |
| SRT | L-8B983 | Murboden cattle breed | 133268002 | C1297422 |
| SRT | L-8B984 | San Martinero cattle breed | 133269005 | C1297423 |
| SRT | L-8B985 | Sarabi cattle breed | 133270006 | C1297424 |
| SRT | L-8B987 | Sharabi cattle breed | 133271005 | C1297425 |
| SRT | L-8B988 | Shetland cattle breed | 133272003 | C1297426 |
| SRT | L-8B989 | Simbrah cattle breed | 133273008 | C1297427 |
| SRT | L-8B98A | South Devon cattle breed | 133274002 | C1297428 |
| SRT | L-8B98B | Suffolk cattle breed | 133275001 | C1297429 |
| SRT | L-8B98C | Sussex cattle breed | 133276000 | C1297430 |
| SRT | L-8B98D | Swedish Red Polled cattle breed | 133277009 | C1297431 |
| SRT | L-8B98E | Telemark cattle breed | 133278004 | C1297432 |
| SRT | L-8B98F | Texas Longhorn cattle breed | 133279007 | C1297433 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-8B990 | Texon cattle breed | 133280005 | C1297434 |
| SRT | L-8B991 | Vestland Fjord cattle breed | 133281009 | C1297435 |
| SRT | L-8B992 | Vestland Red Polled cattle breed | 133282002 | C1297436 |
| SRT | L-8B993 | Wagyu cattle breed | 133283007 | C1297437 |
| SRT | L-8B994 | White Cáceres cattle breed | 133284001 | C1321479 |
| SRT | L-8B995 | Xinjiang Brown cattle breed | 133285000 | C1297438 |
| SRT | L-8B996 | Yanbian cattle breed | 133286004 | C1297439 |
| SRT | L-8B998 | Zaobei cattle breed | 133287008 | C1297440 |
| SRT | L-8B999 | Zavot cattle breed | 133288003 | C1297441 |
| SRT | L-8B99A | Znamensk cattle breed | 133289006 | C1297442 |
| SRT | L-8B99B | Alistana-Sanabresa cattle breed | 133290002 | C1297443 |
| SRT | L-8B99C | Andalusian Blond cattle breed | 133291003 | C1297444 |
| SRT | L-8B99D | Aosta Black Pied cattle breed | 133292005 | C1297445 |
| SRT | L-8B99E | Aosta Chestnut cattle breed | 133293000 | C1297446 |
| SRT | L-8B99F | Aosta Red Pied cattle breed | 133294006 | C1297447 |
| SRT | L-8B9A0 | Aracena cattle breed | 133295007 | C1297448 |
| SRT | L-8B9A1 | Argentine Friesian cattle breed | 133296008 | C1297449 |
| SRT | L-8B9A2 | Armorican cattle breed | 133297004 | C1297450 |
| SRT | L-8B9A3 | Arouquesa cattle breed | 133298009 | C1297451 |
| SRT | L-8B9A4 | Aure et Saint-Girons cattle breed | 133299001 | C1297452 |
| SRT | L-8B9A5 | Australian White cattle breed | 133300009 | C1297453 |
| SRT | L-8B9A6 | Austrian Simmental cattle breed | 133301008 | C1297454 |
| SRT | L-8B9A7 | Austrian Yellow cattle breed | 133302001 | C1297455 |
| SRT | L-8B9A8 | Avetonou cattle breed | 133303006 | C1297456 |
| SRT | L-8B9A9 | Avilena cattle breed | 133304000 | C1297457 |
| SRT | L-8B9AA | Avilena-Black Iberian cattle breed | 133305004 | C1297458 |
| SRT | L-8B9AB | Bakosi cattle breed | 133306003 | C1297459 |
| SRT | L-8B9AC | Bakwiri cattle breed | 133307007 | C1297460 |
| SRT | L-8B9AD | Baltic Black Pied cattle breed | 133308002 | C1297461 |
| SRT | L-8B9AE | Baoule cattle breed | 133309005 | C1297462 |
| SRT | L-8B9AF | Barrosa cattle breed | 133310000 | C1297463 |
| SRT | L-8B9B0 | Barroso cattle breed | 133311001 | C1297464 |
| SRT | L-8B9B1 | Bearnais cattle breed | 133312008 | C1297465 |
| SRT | L-8B9B2 | Beef shorthorn cattle breed | 133313003 | C1297466 |
| SRT | L-8B9B3 | Beef synthetic cattle breed | 133314009 | C1297467 |
| SRT | L-8B9B4 | Beijing Black Pied cattle breed | 133315005 | C1297468 |
| SRT | L-8B9B5 | Beiroa cattle breed | 133316006 | C1297469 |
| SRT | L-8B9B6 | Belgian Black Pied Holstein cattle breed | 133317002 | C1297470 |
| SRT | L-8B9B7 | Belgian Red Pied cattle breed | 133318007 | C1297471 |
| SRT | L-8B9B8 | Belgian White and Red cattle breed | 133319004 | C1297472 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | L-8B9B9 | Belted Welsh cattle breed | 133320005 | C1297473 |
| SRT | L-8B9BA | Bestuzhev cattle breed | 133321009 | C1297474 |
| SRT | L-8B9BB | Betizuak cattle breed | 133322002 | C1297475 |
| SRT | L-8B9BC | Black Baldy cattle breed | 133323007 | C1297476 |
| SRT | L-8B9BD | Black Forrest cattle breed | 133324001 | C1297477 |
| SRT | L-8B9BE | Black Iberian cattle breed | 133325000 | C1297478 |
| SRT | L-8B9BF | Northern Blue cattle breed | 133326004 | C1297479 |
| SRT | L-8B9C0 | Bragado do Sorraia cattle breed | 133327008 | C1297480 |
| SRT | L-8B9C1 | Braganca cattle breed | 133328003 | C1297481 |
| SRT | L-8B9C2 | Brandrood Ijsselveen cattle breed | 133329006 | C1297482 |
| SRT | L-8B9C3 | Brazilian Polled cattle breed | 133330001 | C1297483 |
| SRT | L-8B9C4 | Breton Black Pied cattle breed | 133331002 | C1297484 |
| SRT | L-8B9C5 | Brown Atlas cattle breed | 133332009 | C1297485 |
| SRT | L-8B9C6 | Bulgarian Brown cattle breed | 133333004 | C1297486 |
| SRT | L-8B9C7 | Bulgarian Red cattle breed | 133334005 | C1297487 |
| SRT | L-8B9C8 | Burlina cattle breed | 133335006 | C1297488 |
| SRT | L-8B9C9 | Burwash cattle breed | 133336007 | C1297489 |
| SRT | L-8B9CA | Byelorussian Red cattle breed | 133337003 | C1297490 |
| SRT | L-8B9CB | Byelorussian Synthetic cattle breed | 133338008 | C1297491 |
| SRT | L-8B9CC | Cabannina cattle breed | 133339000 | C1297492 |
| SRT | L-8B9CD | Caldeano cattle breed | 133340003 | C1297493 |
| SRT | L-8B9CE | Caldelana cattle breed | 133341004 | C1297494 |
| SRT | L-8B9CF | Calvana cattle breed | 133342006 | C1297495 |
| SRT | L-8B9D0 | Camargue cattle breed | 133343001 | C1297496 |
| SRT | L-8B9D1 | Cambodian cattle breed | 133344007 | C1297497 |
| SRT | L-8B9D2 | Caracu cattle breed | 133345008 | C1297498 |
| SRT | L-8B9D3 | Carpathian Brown cattle breed | 133346009 | C1297499 |
| SRT | L-8B9D4 | Casanareno cattle breed | 133347000 | C1297500 |
| SRT | L-8B9D5 | Central Russian Black Pied cattle breed | 133348005 | C1297501 |
| SRT | L-8B9D6 | Chaouia cattle breed | 133349002 | C1297502 |
| SRT | L-8B9D7 | Charollandais cattle breed | 133350002 | C1297503 |
| SRT | L-8B9D8 | Char-swiss cattle breed | 133351003 | C1297504 |
| SRT | L-8B9D9 | Korean Black cattle breed | 133352005 | C1297505 |
| SRT | L-8B9DA | Chesi cattle breed | 133353000 | C1297506 |
| SRT | L-8B9DB | Cheurfa cattle breed | 133354006 | C1297507 |
| SRT | L-8B9DC | Chiford cattle breed | 133355007 | C1297508 |
| SRT | L-8B9DD | Chimaine cattle breed | 133356008 | C1297509 |
| SRT | L-8B9DE | Chinampo cattle breed | 133357004 | C1297510 |
| SRT | L-8B9DF | Cildir cattle breed | 133358009 | C1297511 |
| SRT | L-8B9E0 | COOPELSO 93 cattle breed | 133359001 | C1297512 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | L-8B9E1 | Thrace cattle breed | 133360006 | C1297513 |
| SRT | L-8B9E2 | Corsican cattle breed | 133361005 | C1297514 |
| SRT | L-8B9E3 | Cretan Lowland cattle breed | 133362003 | C1297515 |
| SRT | L-8B9E4 | Cretan Mountain cattle breed | 133363008 | C1297516 |
| SRT | L-8B9E5 | Croatian Red cattle breed | 133364002 | C1297517 |
| SRT | L-8B9E6 | Cukurova cattle breed | 133365001 | C1297518 |
| SRT | L-8B9E7 | Curraleiro cattle breed | 133366000 | C1297519 |
| SRT | L-8B9E8 | Cyprus cattle breed | 133367009 | C1297520 |
| SRT | L-8B9E9 | Czech Pied cattle breed | 133368004 | C1297521 |
| SRT | L-8B9EA | Dagestan Mountain cattle breed | 133369007 | C1297522 |
| SRT | L-8B9EB | Dairy Shorthorn cattle breed | 133370008 | C1297523 |
| SRT | L-8B9EC | Dairy Synthetic cattle breed | 133371007 | C1297524 |
| SRT | L-8B9ED | Danish Red Pied cattle breed | 133372000 | C1297525 |
| SRT | L-8B9EE | Dengchuan cattle breed | 133373005 | C1297526 |
| SRT | L-8B9EF | Dexter-Kerry cattle breed | 133374004 | C1297527 |
| SRT | L-8B9F0 | Doran cattle breed | 133375003 | C1297528 |
| SRT | L-8B9F1 | Dorna cattle breed | 133376002 | C1297529 |
| SRT | L-8B9F2 | Dortyol cattle breed | 133377006 | C1297530 |
| SRT | L-8B9F3 | East Anatolian Red cattle breed | 133378001 | C1297531 |
| SRT | L-8B9F4 | East Finnish cattle breed | 133379009 | C1297532 |
| SRT | L-8B9F5 | East Macedonian cattle breed | 133380007 | C1297533 |
| SRT | L-8B9F6 | Epirus cattle breed | 133381006 | C1297534 |
| SRT | L-8B9F7 | Estonian Black Pied cattle breed | 133382004 | C1297535 |
| SRT | L-8B9FA | Ferrandais cattle breed | 133383009 | C1297536 |
| SRT | L-8B9FB | Finnish Ayrshire cattle breed | 133384003 | C1297537 |
| SRT | L-8B9FC | Flemish cattle breed | 133385002 | C1297538 |
| SRT | L-8B9FD | Red Flemish cattle breed | 133386001 | C1297539 |
| SRT | L-8B9FE | Fort Cross cattle breed | 133387005 | C1297540 |
| SRT | L-8B9FF | Frati cattle breed | 133388000 | C1297541 |
| SRT | L-8BA00 | Estonian Native cattle breed | 133389008 | C1297542 |
| SRT | L-8BA01 | Faeroes cattle breed | 133390004 | C1297543 |
| SRT | L-8BA02 | French Brown cattle breed | 133391000 | C1297544 |
| SRT | L-8BA03 | Frijolillo cattle breed | 133392007 | C1297545 |
| SRT | L-8BA04 | FRS cattle breed | 133393002 | C1297546 |
| SRT | L-8BA05 | Gacko cattle breed | 133394008 | C1297547 |
| SRT | L-8BA06 | Gado da Terra cattle breed | 133395009 | C1297548 |
| SRT | L-8BA07 | Georgian Mountain cattle breed | 133396005 | C1297549 |
| SRT | L-8BA08 | German Black Pied cattle breed | 133397001 | C1297550 |
| SRT | L-8BA09 | German Black Pied Dairy cattle breed | 133398006 | C1297551 |
| SRT | L-8BA0A | Pechora cattle breed | 133399003 | C1297552 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | L-8BA0B | Pee Wee cattle breed | 133400005 | C1297553 |
| SRT | L-8BA0C | Peloponnesus cattle breed | 133401009 | C1297554 |
| SRT | L-8BA0D | Pester cattle breed | 133402002 | C1297555 |
| SRT | L-8BA0E | Pie Rouge de l'Est cattle breed | 133403007 | C1297556 |
| SRT | L-8BA0F | Pisana cattle breed | 133404001 | C1297557 |
| SRT | L-8BA10 | German Brown cattle breed | 133405000 | C1297558 |
| SRT | L-8BA11 | German Shorthorn cattle breed | 133406004 | C1297559 |
| SRT | L-8BA12 | Ghana Shorthorn cattle breed | 133407008 | C1297560 |
| SRT | L-8BA13 | Glan-Donnersberg cattle breed | 133408003 | C1297561 |
| SRT | L-8BA14 | Gole cattle breed | 133409006 | C1297562 |
| SRT | L-8BA15 | Golpayegani cattle breed | 133410001 | C1297563 |
| SRT | L-8BA16 | Gorbatov Red cattle breed | 133411002 | C1297564 |
| SRT | L-8BA17 | Goryn cattle breed | 133412009 | C1297565 |
| SRT | L-8BA19 | Greater Caucasus cattle breed | 133413004 | C1297566 |
| SRT | L-8BA1A | Polish Black and White Lowland cattle breed | 133414005 | C1297567 |
| SRT | L-8BA1B | Polish Simmental cattle breed | 133415006 | C1297568 |
| SRT | L-8BA1C | Polled Jersey cattle breed | 133416007 | C1297569 |
| SRT | L-8BA1D | Polled Lincoln Red cattle breed | 133417003 | C1297570 |
| SRT | L-8BA1E | Polled Shorthorn (US) cattle breed | 133418008 | C1297571 |
| SRT | L-8BA1F | Polled Simmental cattle breed | 133419000 | C1297572 |
| SRT | L-8BA20 | Greek Shorthorn cattle breed | 133420006 | C1297573 |
| SRT | L-8BA21 | Greek Steppe cattle breed | 133421005 | C1297574 |
| SRT | L-8BA22 | Gray Alpine cattle breed | 133422003 | C1297575 |
| SRT | L-8BA23 | Guadiana Spotted cattle breed | 133423008 | C1297576 |
| SRT | L-8BA24 | Guelma cattle breed | 133424002 | C1297577 |
| SRT | L-8BA25 | Harz Red cattle breed | 133425001 | C1297578 |
| SRT | L-8BA26 | Hawaiian wild cattle breed | 133426000 | C1297579 |
| SRT | L-8BA27 | Hereland cattle breed | 133427009 | C1297580 |
| SRT | L-8BA28 | Holgus cattle breed | 133428004 | C1297581 |
| SRT | L-8BA29 | Hrbinecky cattle breed | 133429007 | C1297582 |
| SRT | L-8BA2A | Polled Sussex cattle breed | 133430002 | C1297583 |
| SRT | L-8BA2B | Polled Welsh Black cattle breed | 133431003 | C1297584 |
| SRT | L-8BA2C | Pontremolese cattle breed | 133432005 | C1297585 |
| SRT | L-8BA2D | Preta cattle breed | 133433000 | C1297586 |
| SRT | L-8BA2E | Puerto Rican Criollo cattle breed | 133434006 | C1297587 |
| SRT | L-8BA2F | Pyrenean cattle breed | 133435007 | C1297588 |
| SRT | L-8BA30 | Huertana cattle breed | 133436008 | C1297589 |
| SRT | L-8BA31 | Hungarian Pied cattle breed | 133437004 | C1297590 |
| SRT | L-8BA32 | Hungarofries cattle breed | 133438009 | C1297591 |
| SRT | L-8BA33 | Improved Rodopi cattle breed | 133439001 | C1297592 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | L-8BA34 | INRA 95 cattle breed | 133440004 | C1297593 |
| SRT | L-8BA35 | Italian Brown cattle breed | 133441000 | C1297594 |
| SRT | L-8BA36 | Italian Red Pied cattle breed | 133442007 | C1297595 |
| SRT | L-8BA37 | Japanese Black cattle breed | 133443002 | C1297596 |
| SRT | L-8BA38 | Japanese Brown cattle breed | 133444008 | C1297597 |
| SRT | L-8BA39 | Japanese Poll cattle breed | 133445009 | C1297598 |
| SRT | L-8BA3A | Qinchuan cattle breed | 133446005 | C1297599 |
| SRT | L-8BA3B | Ramo Grande cattle breed | 133447001 | C1297600 |
| SRT | L-8BA3C | Randall Lineback cattle breed | 133448006 | C1297601 |
| SRT | L-8BA3D | Red Galloway cattle breed | 133449003 | C1297602 |
| SRT | L-8BA3E | Regus cattle breed | 133450003 | C1297603 |
| SRT | L-8BA3F | Rendena cattle breed | 133451004 | C1297604 |
| SRT | L-8BA40 | Japanese Shorthorn cattle breed | 133452006 | C1297605 |
| SRT | L-8BA41 | Jarmelista cattle breed | 133453001 | C1297606 |
| SRT | L-8BA42 | Kabyle cattle breed | 133454007 | C1297607 |
| SRT | L-8BA43 | Kapsiki cattle breed | 133455008 | C1297608 |
| SRT | L-8BA44 | Katerini cattle breed | 133456009 | C1297609 |
| SRT | L-8BA45 | Kenran cattle breed | 133457000 | C1297610 |
| SRT | L-8BA46 | Khevsurian cattle breed | 133458005 | C1297611 |
| SRT | L-8BA47 | Kilis cattle breed | 133459002 | C1297612 |
| SRT | L-8BA48 | Kochi cattle breed | 133460007 | C1297613 |
| SRT | L-8BA49 | Korean Native cattle breed | 133461006 | C1297614 |
| SRT | L-8BA4A | Rhaetian Gray cattle breed | 133462004 | C1297615 |
| SRT | L-8BA4B | Rio Limon Dairy Criollo cattle breed | 133463009 | C1297616 |
| SRT | L-8BA4C | Rodopi cattle breed | 133464003 | C1297617 |
| SRT | L-8BA4D | Romanian Red cattle breed | 133465002 | C1297618 |
| SRT | L-8BA4E | Romanian Brown cattle breed | 133466001 | C1297619 |
| SRT | L-8BA4F | Russian Brown cattle breed | 133467005 | C1297620 |
| SRT | L-8BA50 | Kostroma cattle breed | 133468000 | C1297621 |
| SRT | L-8BA51 | Kravarsky cattle breed | 133469008 | C1297622 |
| SRT | L-8BA52 | Kuchinoshima cattle breed | 133470009 | C1297623 |
| SRT | L-8BA53 | Murray Gray cattle breed | 133471008 | C1297624 |
| SRT | L-8BA54 | Australian Shorthorn cattle breed | 133472001 | C1297625 |
| SRT | L-8BA55 | Kumamoto cattle breed | 133473006 | C1297626 |
| SRT | L-8BA56 | Lagune cattle breed | 133474000 | C1297627 |
| SRT | L-8BA57 | Lakenvelder cattle breed | 133475004 | C1297628 |
| SRT | L-8BA58 | Latvian Blue Roan cattle breed | 133476003 | C1297629 |
| SRT | L-8BA59 | La Velasquez cattle breed | 133477007 | C1297630 |
| SRT | L-8BA5A | Sardinian cattle breed | 133478002 | C1297631 |
| SRT | L-8BA5B | Sardinian brown cattle breed | 133479005 | C1297632 |
| SRT | L-8BA5C | Savinja Gray cattle breed | 133480008 | C1297633 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-8BA5D | Sayaguesa cattle breed | 133481007 | C1297634 |
| SRT | L-8BA5E | Seferihisar cattle breed | 133482000 | C1297635 |
| SRT | L-8BA5F | Shkodra Red cattle breed | 133483005 | C1297636 |
| SRT | L-8BA60 | Lebanese cattle breed | 133484004 | C1297637 |
| SRT | L-8BA61 | Lebedin cattle breed | 133485003 | C1297638 |
| SRT | L-8BA62 | Lesser Caucasus cattle breed | 133486002 | C1297639 |
| SRT | L-8BA63 | Liberian Dwarf cattle breed | 133487006 | C1297640 |
| SRT | L-8BA64 | Libyan cattle breed | 133488001 | C1297641 |
| SRT | L-8BA65 | Lim cattle breed | 133489009 | C1297642 |
| SRT | L-8BA66 | Limiana cattle breed | 133490000 | C1297643 |
| SRT | L-8BA67 | Limpurger cattle breed | 133491001 | C1297644 |
| SRT | L-8BA68 | Lobi cattle breed | 133492008 | C1297645 |
| SRT | L-8BA69 | Lourdais cattle breed | 133493003 | C1297646 |
| SRT | L-8BA6A | Slovakian Pied cattle breed | 133494009 | C1297647 |
| SRT | L-8BA6B | Slovakian Pinzgau cattle breed | 133495005 | C1297648 |
| SRT | L-8BA6C | Slovenian Brown cattle breed | 133496006 | C1297649 |
| SRT | L-8BA6D | Somba cattle breed | 133497002 | C1297650 |
| SRT | L-8BA6E | South African Brown Swiss cattle breed | 133498007 | C1297651 |
| SRT | L-8BA6F | South Anatolian Red cattle breed | 133499004 | C1297652 |
| SRT | L-8BA70 | Lucerna cattle breed | 133500008 | C1297653 |
| SRT | L-8BA71 | Luxi cattle breed | 133501007 | C1297654 |
| SRT | L-8BA72 | Macedonian Busa cattle breed | 133502000 | C1297655 |
| SRT | L-8BA73 | Makaweli cattle breed | 133503005 | C1297656 |
| SRT | L-8BA74 | Marinhova cattle breed | 133504004 | C1297657 |
| SRT | L-8BA75 | Maronesa cattle breed | 133505003 | C1297658 |
| SRT | L-8BA76 | Mazury cattle breed | 133506002 | C1297659 |
| SRT | L-8BA77 | Messaoria cattle breed | 133507006 | C1297660 |
| SRT | L-8BA78 | Metohija Red cattle breed | 133508001 | C1297661 |
| SRT | L-8BA79 | Mingrelian Red cattle breed | 133509009 | C1297662 |
| SRT | L-8BA7A | Southern Ukranian cattle breed | 133510004 | C1297663 |
| SRT | L-8BA7B | Spanish Brown Alpine cattle breed | 133511000 | C1297664 |
| SRT | L-8BA7C | Suksun cattle breed | 133512007 | C1297665 |
| SRT | L-8BA7D | Swiss Black Pied cattle breed | 133513002 | C1269477 |
| SRT | L-8BA7E | Sychevka cattle breed | 133514008 | C1297666 |
| SRT | L-8BA7F | Sykia cattle breed | 133515009 | C1297667 |
| SRT | L-8BA80 | Minhota cattle breed | 133516005 | C1297668 |
| SRT | L-8BA81 | Minorcan cattle breed | 133517001 | C1297669 |
| SRT | L-8BA82 | Mishima cattle breed | 133518006 | C1297670 |
| SRT | L-8BA83 | Modenese cattle breed | 133519003 | C1269478 |
| SRT | L-8BA84 | Monchina cattle breed | 133520009 | C1297671 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | L-8BA85 | Montafon cattle breed | 133521008 | C1297672 |
| SRT | L-8BA86 | Montbeliard cattle breed | 133522001 | C1297673 |
| SRT | L-8BA87 | Morenas del Noroeste cattle breed | 133523006 | C1297674 |
| SRT | L-8BA88 | Murcian cattle breed | 133524000 | C1269479 |
| SRT | L-8BA89 | Murnau-Werdenfels cattle breed | 133525004 | C1297675 |
| SRT | L-8BA8A | Tagil cattle breed | 133526003 | C1297676 |
| SRT | L-8BA8B | Tajma cattle breed | 133527007 | C1297677 |
| SRT | L-8BA8C | Tambov Red cattle breed | 133528002 | C1269480 |
| SRT | L-8BA8D | Tarina cattle breed | 133529005 | C1297678 |
| SRT | L-8BA8E | Thessaly cattle breed | 133530000 | C1297679 |
| SRT | L-8BA8F | Tinima cattle breed | 133531001 | C1297680 |
| SRT | L-8BA90 | Nantais cattle breed | 133532008 | C1297681 |
| SRT | L-8BA91 | Nejdi cattle breed | 133533003 | C1297682 |
| SRT | L-8BA92 | N'Gabou cattle breed | 133534009 | C1297683 |
| SRT | L-8BA93 | North Finncattle cattle breed | 133535005 | C1269481 |
| SRT | L-8BA94 | Oropa cattle breed | 133536006 | C1297684 |
| SRT | L-8BA95 | Oulmes Blond cattle breed | 133537002 | C1269482 |
| SRT | L-8BA96 | Pajuna cattle breed | 133538007 | C1297685 |
| SRT | L-8BA97 | Palmera cattle breed | 133539004 | C1297686 |
| SRT | L-8BA98 | Pankota Red cattle breed | 133540002 | C1269483 |
| SRT | L-8BA99 | Paphos cattle breed | 133541003 | C1297687 |
| SRT | L-8BA9A | Tinos cattle breed | 133542005 | C1297688 |
| SRT | L-8BA9B | Transylvanian Pinzgua cattle breed | 133543000 | C1297689 |
| SRT | L-8BA9C | Tropical Dairy Cattle cattle breed | 133544006 | C1269484 |
| SRT | L-8BA9D | Tropicana cattle breed | 133545007 | C1297690 |
| SRT | L-8BA9E | Tudanca cattle breed | 133546008 | C1297691 |
| SRT | L-8BA9F | Turino cattle breed | 133547004 | C1297692 |
| SRT | L-8BAA0 | Turkish Brown cattle breed | 133548009 | C1269485 |
| SRT | L-8BAA1 | Tux-Zillertal cattle breed | 133549001 | C1297693 |
| SRT | L-8BAA2 | Tyrol Gray cattle breed | 133550001 | C1269486 |
| SRT | L-8BAA3 | Abondance cattle breed | 133551002 | C1297694 |
| SRT | L-8BAA4 | Ala-Tau cattle breed | 133552009 | C1297695 |
| SRT | L-8BAA5 | Albanian Illyrian cattle breed | 133553004 | C1269487 |
| SRT | L-8BAA6 | Albanian Dwarf cattle breed | 133554005 | C1269488 |
| SRT | L-8BAA7 | Ukrainian Whiteheaded cattle breed | 133555006 | C1269489 |
| SRT | L-8BAA8 | Ural Black Pied cattle breed | 133556007 | C1269490 |
| SRT | L-8BAA9 | Valdres cattle breed | 133557003 | C1297696 |
| SRT | L-8BAAA | Vaynol cattle breed | 133558008 | C1297697 |
| SRT | L-8BAAB | Verinesa cattle breed | 133559000 | C1297698 |
| SRT | L-8BAAC | Vianesa cattle breed | 133560005 | C1297699 |
| SRT | L-8BAAD | Villard-de-Lans cattle breed | 133561009 | C1297700 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | L-8BAAE | Vogelsberg cattle breed | 133562002 | C1297701 |
| SRT | L-8BAAF | Pie Rouge des Plaines cattle breed | 133563007 | C1297702 |
| SRT | L-8BAB0 | Vorderwald cattle breed | 133564001 | C1297703 |
| SRT | L-8BAB1 | West African Dwarf Shorthorn cattle breed | 133565000 | C1269491 |
| SRT | L-8BAB2 | West Finnish cattle breed | 133566004 | C1269492 |
| SRT | L-8BAB3 | West Macedonian cattle breed | 133567008 | C1269493 |
| SRT | L-8BAB4 | Whitebred Shorthorn cattle breed | 133568003 | C1269494 |
| SRT | L-8BAB5 | White Galloway cattle breed | 133569006 | C1269495 |
| SRT | L-8BAB6 | White Welsh cattle breed | 133570007 | C1269496 |
| SRT | L-8BAB7 | Witrik cattle breed | 133571006 | C1297704 |
| SRT | L-8BAB8 | Yacumento cattle breed | 133572004 | C1297705 |
| SRT | L-8BAB9 | Yaroslavl cattle breed | 133573009 | C1297706 |
| SRT | L-8BABA | Yurino cattle breed | 133574003 | C1297707 |
| SRT | L-8BABB | Aleppo cattle breed | 133575002 | C1297708 |
| SRT | L-8BABC | Schwyz cattle breed | 133576001 | C1297709 |
| SRT | L-8BABD | Busa cattle breed | 133577005 | C1297710 |
| SRT | L-8BABE | Chiangus cattle breed | 133578000 | C1297711 |
| SRT | L-8BABF | Hallingdal cattle breed | 133579008 | C1297712 |
| SRT | L-8BAC0 | Danish Jersey cattle breed | 133580006 | C1269497 |
| SRT | L-8BAC1 | Enderby Island cattle breed | 133581005 | C1269498 |
| SRT | L-8BAC2 | German Angus cattle breed | 133582003 | C1269499 |
| SRT | L-8BAC3 | Israeli Red cattle breed | 133583008 | C1269500 |
| SRT | L-8BAC4 | Lineback cattle breed | 133584002 | C1269501 |
| SRT | L-8BAC5 | Mertolenga cattle breed | 133585001 | C1297713 |
| SRT | L-8BAC6 | Red Friesian cattle breed | 133586000 | C1269502 |
| SRT | L-8BAC7 | Senegus cattle breed | 133587009 | C1297714 |
| SRT | L-8BAC8 | Southern Crioulo cattle breed | 133588004 | C1297715 |
| SRT | L-8BAC9 | Vosges cattle breed | 133589007 | C1297716 |
| SRT | L-8BACA | Montanara cattle breed | 133590003 | C1297717 |
| SRT | L-8BACB | Almanzorena cattle breed | 133591004 | C1297718 |
| SRT | L-8BACC | Lorquina cattle breed | 133592006 | C1297719 |
| SRT | L-8BACD | Calasparrena cattle breed | 133593001 | C1297720 |
| SRT | L-8BACE | Amrit Mahal zebu cattle breed | 133594007 | C1297721 |
| SRT | L-8BACF | Bachaur cattle breed | 133595008 | C1297722 |
| SRT | L-8BAD0 | Barka zebu cattle breed | 133596009 | C1297723 |
| SRT | L-8BAD1 | Bengali cattle breed | 133597000 | C1297724 |
| SRT | L-8BAD2 | Bhagnari cattle breed | 133598005 | C1297725 |
| SRT | L-8BAD3 | Boran cattle breed | 133599002 | C1297726 |
| SRT | L-8BAD4 | Channi cattle breed | 133600004 | C1297727 |
| SRT | L-8BAD5 | Cholistani cattle breed | 133601000 | C1297728 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | L-8BAD6 | Dajal cattle breed | 133602007 | C1297729 |
| SRT | L-8BAD7 | Dangi cattle breed | 133603002 | C1297730 |
| SRT | L-8BAD8 | Deoni cattle breed | 133604008 | C1297731 |
| SRT | L-8BAD9 | Dhanni cattle breed | 133605009 | C1297732 |
| SRT | L-8BADA | Gaolao cattle breed | 133606005 | C1297733 |
| SRT | L-8BADB | Hallikar cattle breed | 133607001 | C1297734 |
| SRT | L-8BADC | Hariana cattle breed | 133608006 | C1297735 |
| SRT | L-8BADD | Indo-Brazilian cattle breed | 133609003 | C1297736 |
| SRT | L-8BADE | Kangayam cattle breed | 133610008 | C1297737 |
| SRT | L-8BADF | Kankrej cattle breed | 133611007 | C1297738 |
| SRT | L-8BAE0 | Kenkatha cattle breed | 133612000 | C1297739 |
| SRT | L-8BAE1 | Kherigarh cattle breed | 133613005 | C1297740 |
| SRT | L-8BAE2 | Khillari cattle breed | 133614004 | C1297741 |
| SRT | L-8BAE3 | Krishna Valley cattle breed | 133615003 | C1269503 |
| SRT | L-8BAE4 | Lohani cattle breed | 133616002 | C1297742 |
| SRT | L-8BAE5 | Malvi cattle breed | 133617006 | C1297743 |
| SRT | L-8BAE6 | Mewati cattle breed | 133618001 | C1297744 |
| SRT | L-8BAE7 | Nagori cattle breed | 133619009 | C1297745 |
| SRT | L-8BAE9 | Nelore cattle breed | 133620003 | C0324079 |
| SRT | L-8BAEA | Nimari cattle breed | 133621004 | C1297747 |
| SRT | L-8BAEB | Ponwar cattle breed | 133622006 | C1297748 |
| SRT | L-8BAEC | Rath cattle breed | 133623001 | C1297749 |
| SRT | L-8BAED | Rathi cattle breed | 133624007 | C1297750 |
| SRT | L-8BAEE | Red Sindhi cattle breed | 133625008 | C1269504 |
| SRT | L-8BAEF | Rojhan cattle breed | 133626009 | C1297751 |
| SRT | L-8BAF0 | Sahiwal cattle breed | 133627000 | C1297752 |
| SRT | L-8BAF1 | Siri zebu cattle breed | 133628005 | C1297753 |
| SRT | L-8BAF2 | Tharparkar cattle breed | 133629002 | C1297754 |
| SRT | L-8BAF3 | Zanzibar Zebu cattle breed | 133630007 | C1297755 |
| SRT | L-8BAF4 | Arsi cattle breed | 133631006 | C1297756 |
| SRT | L-8BAF5 | Atpadi Mahal cattle breed | 133632004 | C1297757 |
| SRT | L-8BAF6 | Azaouak cattle breed | 133633009 | C1297758 |
| SRT | L-8BAF7 | Azerbaijan Zebu cattle breed | 133634003 | C1297759 |
| SRT | L-8BAF8 | Baggara cattle breed | 133635002 | C1297760 |
| SRT | L-8BAF9 | Bambawa cattle breed | 133636001 | C1297761 |
| SRT | L-8BAFA | Bami cattle breed | 133637005 | C1297762 |
| SRT | L-8BAFB | Banyo cattle breed | 133638000 | C1297763 |
| SRT | L-8BAFC | Bargur cattle breed | 133639008 | C1297764 |
| SRT | L-8BAFD | Bari cattle breed | 133640005 | C1297765 |
| SRT | L-8BAFE | Bimal cattle breed | 133641009 | C1297766 |
| SRT | L-8BAFF | Borneo Zebu cattle breed | 133642002 | C1297767 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-8BB00 | Butana cattle breed | 133643007 | C1297768 |
| SRT | L-8BB01 | Chittagong Red cattle breed | 133644001 | C1269505 |
| SRT | L-8BB02 | Cutchi cattle breed | 133645000 | C1297769 |
| SRT | L-8BB03 | Dairy Zebu of Uberaba cattle breed | 133646004 | C1269506 |
| SRT | L-8BB04 | Dashtiari cattle breed | 133647008 | C1297770 |
| SRT | L-8BB05 | Diali cattle breed | 133648003 | C1297771 |
| SRT | L-8BB06 | Didinga cattle breed | 133649006 | C1297772 |
| SRT | L-8BB07 | Dongola cattle breed | 133650006 | C1297773 |
| SRT | L-8BB09 | Fellata cattle breed | 133651005 | C1297774 |
| SRT | L-8BB0A | Turkmen zebu cattle breed | 133652003 | C1269507 |
| SRT | L-8BB0B | Abyssinian Highland Zebu cattle breed | 133653008 | C1269508 |
| SRT | L-8BB0C | Abyssinian Shorthorned Zebu cattle breed | 133654002 | C1269509 |
| SRT | L-8BB0E | Aceh cattle breed | 133655001 | C1297775 |
| SRT | L-8BB0F | Achham cattle breed | 133656000 | C1297776 |
| SRT | L-8BB10 | Garre cattle breed | 133657009 | C1297777 |
| SRT | L-8BB11 | Gasara cattle breed | 133658004 | C1297778 |
| SRT | L-8BB12 | Gobra cattle breed | 133659007 | C1297779 |
| SRT | L-8BB13 | Goomsur cattle breed | 133660002 | C1297780 |
| SRT | L-8BB14 | Gujamavu cattle breed | 133661003 | C1297781 |
| SRT | L-8BB15 | Leiqiong cattle breed | 133662005 | C1297782 |
| SRT | L-8BB16 | Hissar cattle breed | 133663000 | C1297783 |
| SRT | L-8BB17 | Ingessana cattle breed | 133664006 | C1297784 |
| SRT | L-8BB18 | Jamaica Brahman cattle breed | 133665007 | C1276277 |
| SRT | L-8BB19 | Jellicut cattle breed | 133666008 | C1297785 |
| SRT | L-8BB1A | Adamawa cattle breed | 133667004 | C1297786 |
| SRT | L-8BB1B | Aden Zebu cattle breed | 133668009 | C1269510 |
| SRT | L-8BB1C | Afghan cattle breed | 133669001 | C1297787 |
| SRT | L-8BB1D | Alambadi cattle breed | 133670000 | C1297788 |
| SRT | L-8BB1E | Umblachery cattle breed | 133671001 | C1297789 |
| SRT | L-8BB1F | Venezuelan Zebu cattle breed | 133672008 | C1297790 |
| SRT | L-8BB20 | Pantaneiro cattle breed | 133673003 | C1297791 |
| SRT | L-8BB21 | Jenubi cattle breed | 133674009 | C1297792 |
| SRT | L-8BB22 | Jiddu cattle breed | 133675005 | C1297793 |
| SRT | L-8BB23 | Jijiga Zebu cattle breed | 133676006 | C1297794 |
| SRT | L-8BB24 | Kabota cattle breed | 133677002 | C1297795 |
| SRT | L-8BB25 | Kachcha Siri cattle breed | 133678007 | C1297796 |
| SRT | L-8BB26 | Kalakheri cattle breed | 133679004 | C1297797 |
| SRT | L-8BB27 | Kamdhino cattle breed | 133680001 | C1297798 |
| SRT | L-8BB28 | Kandahari cattle breed | 133681002 | C1297799 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | L-8BB29 | Kaniningan cattle breed | 133682009 | C1297800 |
| SRT | L-8BB2A | Wakwa cattle breed | 133683004 | C1297801 |
| SRT | L-8BB2B | White Fulani cattle breed | 133684005 | C1269511 |
| SRT | L-8BB2C | Yemeni Zebu cattle breed | 133685006 | C1297802 |
| SRT | L-8BB2D | Iranian Zebu cattle breed | 133686007 | C1297803 |
| SRT | L-8BB2E | Khorsan cattle breed | 133687003 | C1297804 |
| SRT | L-8BB2F | Polled Gir cattle breed | 133688008 | C1297805 |
| SRT | L-8BB30 | Kappiliyan cattle breed | 133689000 | C1297806 |
| SRT | L-8BB31 | Karamajong cattle breed | 133690009 | C1297807 |
| SRT | L-8BB32 | Kenana cattle breed | 133691008 | C1297808 |
| SRT | L-8BB33 | Kenya Boran cattle breed | 133692001 | C1269512 |
| SRT | L-8BB34 | Kenya Zebu cattle breed | 133693006 | C1269513 |
| SRT | L-8BB35 | Khamala cattle breed | 133694000 | C1297809 |
| SRT | L-8BB36 | Khurasani zebu cattle breed | 133695004 | C1297810 |
| SRT | L-8BB37 | Kilara cattle breed | 133696003 | C1297811 |
| SRT | L-8BB38 | Kinniya cattle breed | 133697007 | C1297812 |
| SRT | L-8BB39 | Konari cattle breed | 133698002 | C1297813 |
| SRT | L-8BB3A | Guzerat cattle breed | 133699005 | C1297814 |
| SRT | L-8BB3B | Tadzhik zebu cattle breed | 133700006 | C1297815 |
| SRT | L-8BB3C | Deogir cattle breed | 133701005 | C1297816 |
| SRT | L-8BB3D | Gayal cattle breed | 133702003 | C1297817 |
| SRT | L-8BB3E | American bison X cattle breed | 133703008 | C1269514 |
| SRT | L-8BB3F | Australian Braford X zebu cattle breed | 133704002 | C1269515 |
| SRT | L-8BB40 | Krishnagari cattle breed | 133705001 | C1297818 |
| SRT | L-8BB41 | Kumauni cattle breed | 133706000 | C1297819 |
| SRT | L-8BB42 | Ladakhi cattle breed | 133707009 | C1297820 |
| SRT | L-8BB43 | Latuka cattle breed | 133708004 | C1297821 |
| SRT | L-8BB44 | Lugware cattle breed | 133709007 | C1297822 |
| SRT | L-8BB45 | Madagascar Zebu cattle breed | 133710002 | C1297823 |
| SRT | L-8BB46 | Madaripur cattle breed | 133711003 | C1297824 |
| SRT | L-8BB47 | Magal cattle breed | 133712005 | C1297825 |
| SRT | L-8BB48 | Malawi Zebu cattle breed | 133713000 | C1297826 |
| SRT | L-8BB49 | Malnad Gidda cattle breed | 133714006 | C1297827 |
| SRT | L-8BB4A | Australian Friesian Sahiwal X zebu cattle breed | 133715007 | C1269410 |
| SRT | L-8BB4B | Braford X zebu cattle breed | 133716008 | C1269411 |
| SRT | L-8BB4C | Brahmousin X zebu cattle breed | 133717004 | C1269412 |
| SRT | L-8BB4D | Canchim X zebu cattle breed | 133718009 | C1269413 |
| SRT | L-8BB4E | Charbray X zebu cattle breed | 133719001 | C1269414 |
| SRT | L-8BB4F | Droughtmaster X zebu cattle breed | 133720007 | C1269415 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | L-8BB50 | Mampati cattle breed | 133721006 | C1297828 |
| SRT | L-8BB51 | Manapari cattle breed | 133722004 | C1297829 |
| SRT | L-8BB52 | Maure cattle breed | 133723009 | C1297830 |
| SRT | L-8BB53 | Mazandarani cattle breed | 133724003 | C1297831 |
| SRT | L-8BB54 | Merauke cattle breed | 133725002 | C1297832 |
| SRT | L-8BA68 | Mere cattle breed | 133492008 | C1297645 |
| SRT | L-8BB56 | Mhaswad cattle breed | 133727005 | C1297834 |
| SRT | L-8BB57 | Miniature Zebu cattle breed | 133728000 | C1269416 |
| SRT | L-8BB58 | Mongalla cattle breed | 133729008 | C1297835 |
| SRT | L-8BB59 | Morang cattle breed | 133730003 | C1297836 |
| SRT | L-8BB5A | Gelbray X zebu cattle breed | 133731004 | C1269417 |
| SRT | L-8BB5B | Jamaica Black X zebu cattle breed | 133732006 | C1269418 |
| SRT | L-8BB5C | Jamaica Hope X zebu cattle breed | 133733001 | C1269419 |
| SRT | L-8BB5D | Jamaica Red X zebu cattle breed | 133734007 | C1269420 |
| SRT | L-8BB5E | Karan Fries X zebu cattle breed | 133735008 | C1269421 |
| SRT | L-8BB5F | Karan Swiss X zebu cattle breed | 133736009 | C1269422 |
| SRT | L-8BB60 | Mozambique Angoni cattle breed | 133737000 | C1269423 |
| SRT | L-8BB61 | Mpwapwa cattle breed | 133738005 | C1269424 |
| SRT | L-8BB62 | Murle cattle breed | 133739002 | C1297837 |
| SRT | L-8BB63 | Nakali cattle breed | 133740000 | C1297838 |
| SRT | L-8BB64 | Nepalese Hill Zebu cattle breed | 133741001 | C1269425 |
| SRT | L-8BB65 | N'Gaoundere cattle breed | 133742008 | C1297839 |
| SRT | L-8BB66 | Nkedi cattle breed | 133743003 | C1297840 |
| SRT | L-8BB67 | North Bangladesh Gray cattle breed | 133744009 | C1269426 |
| SRT | L-8BB68 | North Somali Zebu cattle breed | 133745005 | C1269427 |
| SRT | L-8BB69 | Polled Guzerat cattle breed | 133746006 | C1297841 |
| SRT | L-8BB6A | Mandalong X zebu cattle breed | 133747002 | C1269428 |
| SRT | L-8BB6B | Australian Milking Zebu X zebu cattle breed | 133748007 | C1269429 |
| SRT | L-8BB6C | Red Brangus X zebu cattle breed | 133749004 | C1269430 |
| SRT | L-8BB6D | Santa Cruz X zebu cattle breed | 133750004 | C1269431 |
| SRT | L-8BB6E | Siboney X zebu cattle breed | 133751000 | C1269432 |
| SRT | L-8BB6F | Bambara X zebu cattle breed | 133752007 | C1269433 |
| SRT | L-8BB70 | Polled Nelore cattle breed | 133753002 | C1297842 |
| SRT | L-8BB71 | Prewakwa cattle breed | 133754008 | C1297843 |
| SRT | L-8BB72 | Pul-M'bor cattle breed | 133755009 | C1297844 |
| SRT | L-8BB73 | Punganur cattle breed | 133756005 | C1297845 |
| SRT | L-8BB74 | Ramgarhi cattle breed | 133757001 | C1297846 |
| SRT | L-8BB75 | Red Bororo cattle breed | 133758006 | C1269434 |
| SRT | L-8BB76 | Red Desert cattle breed | 133759003 | C1269435 |
| SRT | L-8BB77 | Red Kandhari cattle breed | 133760008 | C1269436 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-8BB78 | Shakhansurri cattle breed | 133761007 | C1297847 |
| SRT | L-8BB79 | Sheko cattle breed | 133762000 | C1297848 |
| SRT | L-8BB7A | Bambey X zebu cattle breed | 133763005 | C1269437 |
| SRT | L-8BB7B | Batanes Black X zebu cattle breed | 133764004 | C1269438 |
| SRT | L-8BB7C | Borgou X zebu cattle breed | 133765003 | C1269439 |
| SRT | L-8BB7D | Brahorn X zebu cattle breed | 133766002 | C1269440 |
| SRT | L-8BB7E | Bralers X zebu cattle breed | 133767006 | C1269441 |
| SRT | L-8BB7F | Bra-Maine X zebu cattle breed | 133768001 | C1269442 |
| SRT | L-8BB80 | Shendi cattle breed | 133769009 | C1297849 |
| SRT | L-8BB81 | Shuwa cattle breed | 133770005 | C1297850 |
| SRT | L-8BB82 | Sinhala cattle breed | 133771009 | C1297851 |
| SRT | L-8BB83 | Sistani cattle breed | 133772002 | C1297852 |
| SRT | L-8BB84 | Small East African Zebu cattle breed | 133773007 | C1269443 |
| SRT | L-8BB85 | Sokoto Gudali cattle breed | 133774001 | C1297853 |
| SRT | L-8BB86 | Somali cattle breed | 133775000 | C1297854 |
| SRT | L-8BB87 | Sonkheri cattle breed | 133776004 | C1297855 |
| SRT | L-8BB88 | Son Valley cattle breed | 133777008 | C1269444 |
| SRT | L-8BB89 | South China Zebu cattle breed | 133778003 | C1269445 |
| SRT | L-8BB8A | Bra-Swiss X zebu cattle breed | 133779006 | C1269446 |
| SRT | L-8BB8B | Bravon X zebu cattle breed | 133780009 | C1269447 |
| SRT | L-8BB8C | Brazilian Dairy Hybrid X zebu cattle breed | 133781008 | C1269448 |
| SRT | L-8BB8D | Burmese X zebu cattle breed | 133782001 | C1269449 |
| SRT | L-8BB8E | Bushuev X zebu cattle breed | 133783006 | C1269450 |
| SRT | L-8BB8F | Caiua X zebu cattle breed | 133784000 | C1269451 |
| SRT | L-8BB90 | South Malawi Zebu cattle breed | 133785004 | C1297856 |
| SRT | L-8BB91 | Sudanese Fulani cattle breed | 133786003 | C1269452 |
| SRT | L-8BB92 | Tabapua cattle breed | 133787007 | C1297857 |
| SRT | L-8BB93 | Tamankaduwa cattle breed | 133788002 | C1297858 |
| SRT | L-8BB94 | Tanzanian Zebu cattle breed | 133789005 | C1297859 |
| SRT | L-8BB95 | Tarai cattle breed | 133790001 | C1297860 |
| SRT | L-8BB96 | Thillari cattle breed | 133791002 | C1297861 |
| SRT | L-8BB97 | Toposa cattle breed | 133792009 | C1297862 |
| SRT | L-8BB98 | Toronke cattle breed | 133793004 | C1297863 |
| SRT | L-8BB99 | Toupouri cattle breed | 133794005 | C1297864 |
| SRT | L-8BB9A | Carazebu X zebu cattle breed | 133795006 | C1269453 |
| SRT | L-8BB9B | Central Asian Zebu X zebu cattle breed | 133796007 | C1269454 |
| SRT | L-8BB9C | Charford X zebu cattle breed | 133797003 | C1269455 |
| SRT | L-8BB9D | Cuban Criollo X zebu cattle breed | 133798008 | C1269456 |
| SRT | L-8BB9E | Cuban Zebu X zebu cattle breed | 133799000 | C1269457 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-8BB9F | Dishty X zebu cattle breed | 133800001 | C1269458 |
| SRT | L-8BC00 | Djakore X zebu cattle breed | 133801002 | C1269459 |
| SRT | L-8BC01 | Gambian N'Dama X zebu cattle breed | 133802009 | C1269460 |
| SRT | L-8BC03 | Ghana Sanga X zebu cattle breed | 133803004 | C1269461 |
| SRT | L-8BC04 | Girolando X zebu cattle breed | 133804005 | C1269462 |
| SRT | L-8BC05 | Guzerando X zebu cattle breed | 133805006 | C1269463 |
| SRT | L-8BC06 | Hatton X zebu cattle breed | 133806007 | C1269464 |
| SRT | L-8BC07 | Ibage X zebu cattle breed | 133807003 | C1269465 |
| SRT | L-8BC08 | Iraqi X zebu cattle breed | 133808008 | C1269466 |
| SRT | L-8BC09 | Jerdi X zebu cattle breed | 133809000 | C1269467 |
| SRT | L-8BC10 | Jersind X zebu cattle breed | 133810005 | C1269468 |
| SRT | L-8BC11 | Jotko X zebu cattle breed | 133811009 | C1269469 |
| SRT | L-8BC12 | Kanem X zebu cattle breed | 133812002 | C1269470 |
| SRT | L-8BC13 | Keteku X zebu cattle breed | 133813007 | C1269471 |
| SRT | L-8BC14 | Lavinia X zebu cattle breed | 133814001 | C1269472 |
| SRT | L-8BC15 | Local Indian Dairy X zebu cattle breed | 133815000 | C1269473 |
| SRT | L-8BC16 | Mantiqueira X zebu cattle breed | 133816004 | C1269474 |
| SRT | L-8BC17 | Ndagu X zebu cattle breed | 133817008 | C1269475 |
| SRT | L-8BC18 | Normanzu X zebu cattle breed | 133818003 | C1269476 |
| SRT | L-8BC19 | Nuba Mountain X zebu cattle breed | 133819006 | C1269516 |
| SRT | L-8BC20 | Pabna X zebu cattle breed | 133820000 | C1269517 |
| SRT | L-8BC21 | Mixed Perijanero X zebu cattle breed | 133821001 | C1269518 |
| SRT | L-8BC22 | Pitangueiras X zebu cattle breed | 133822008 | C1269519 |
| SRT | L-8BC23 | Quasah X zebu cattle breed | 133823003 | C1269520 |
| SRT | L-8BC24 | Rana X zebu cattle breed | 133824009 | C1269521 |
| SRT | L-8BC25 | Ranger X zebu cattle breed | 133825005 | C1269522 |
| SRT | L-8BC26 | Renitelo X zebu cattle breed | 133826006 | C1269523 |
| SRT | L-8BC27 | Riopardenze X zebu cattle breed | 133827002 | C1297865 |
| SRT | L-8BC28 | Rustaqi X zebu cattle breed | 133828007 | C1297866 |
| SRT | L-8BC29 | Sabre X zebu cattle breed | 133829004 | C1297867 |
| SRT | L-8BC30 | Sahford X zebu cattle breed | 133830009 | C1297868 |
| SRT | L-8BC31 | Schwyz-Zeboid X zebu cattle breed | 133831008 | C1297869 |
| SRT | L-8BC32 | Suia X zebu cattle breed | 133832001 | C1297870 |
| SRT | L-8BC33 | Suisbu X zebu cattle breed | 133833006 | C1297871 |
| SRT | L-8BC34 | Sunandini X zebu cattle breed | 133834000 | C1297872 |
| SRT | L-8BC35 | Taino X zebu cattle breed | 133835004 | C1297873 |
| SRT | L-8BC36 | Thibar X zebu cattle breed | 133836003 | C1297874 |
| SRT | L-8BC37 | Toubou X zebu cattle breed | 133837007 | C1297875 |
| SRT | L-8BC38 | Tropical X zebu cattle breed | 133838002 | C1297876 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | L-8BC39 | TSSH-1 X zebu cattle breed | 133839005 | C1297877 |
| SRT | L-8BC40 | Victoria X zebu cattle breed | 133840007 | C1297878 |
| SRT | L-8BC41 | Wokalup X zebu cattle breed | 133841006 | C1297879 |
| SRT | L-8BC42 | Madura wild javan X zebu cattle breed | 133842004 | C1297880 |
| SRT | L-80A40 | Rex cat breed | 1809004 | C0324505 |
| SRT | L-80770 | Dachshund superbreed of dog | 2062007 | C0324348 |
| SRT | L-80320 | Dorset sheep superbreed | 25327001 | C0324114 |
| SRT | L-80A42 | Devon rex cat breed | 51692004 | C0324507 |
| SRT | L-80A41 | Cornish rex cat breed | 56917006 | C0324506 |
| SRT | L-80A45 | Oregon rex cat breed | 396505009 | C1300782 |
| SRT | L-80A05 | Abyssinian cat | 36074003 | C0324484 |
| SRT | L-80A06 | American shorthair cat | 69855002 | C0324485 |
| SRT | L-80A07 | American wirehaired cat | 21726001 | C0324486 |
| SRT | L-80A08 | Balinese cat | 3653002 | C0324487 |
| SRT | L-80A09 | Birman cat | 43219001 | C0324488 |
| SRT | L-80A10 | Bombay cat | 16528000 | C0324489 |
| SRT | L-80A11 | British shorthaired cat | 70653001 | C0324490 |
| SRT | L-80A12 | Burmese cat | 89065000 | C0324491 |
| SRT | L-D9814 | Cestrum parqui | 13653002 | C0331192 |
| SRT | L-80A13 | Chartreux cat | 43529009 | C0324492 |
| SRT | L-80A51 | Colourpoint shorthaired cat | 61753003 | C0324511 |
| SRT | L-80A19 | Domestic leopard cat | 73271003 | C0324498 |
| SRT | L-80A20 | Domestic longhaired cat | 8419007 | C0324499 |
| SRT | L-8880B | Domestic medium-haired cat | 409914009 | C1455846 |
| SRT | L-80A52 | Domestic shorthaired cat | 15020009 | C0324512 |
| SRT | L-80A14 | Egyptian mau cat | 21637005 | C0324493 |
| SRT | L-80A53 | Exotic shorthaired cat | 26057009 | C0324513 |
| SRT | L-80A15 | Havana brown cat | 3354004 | C0324494 |
| SRT | L-80A16 | Japanese bobtail cat | 26382003 | C0324495 |
| SRT | L-80A17 | Javanese cat | 10701001 | C0324496 |
| SRT | L-80A18 | Korat cat | 27125003 | C0324497 |
| SRT | L-80A31 | Longhaired manx | 40547002 | C0324502 |
| SRT | L-80A21 | Maine coon cat | 81866001 | C0324500 |
| SRT | L-80A30 | Manx | 3995008 | C0324501 |
| SRT | L-80A32 | Ocicat | 63972001 | C0324503 |
| SRT | L-80A54 | Oriental shorthaired cat | 24967003 | C0324514 |
| SRT | L-80A33 | Persian cat | 68086001 | C0324504 |
| SRT | L-80A43 | Russian blue cat | 84797007 | C0324508 |
| SRT | L-80A44 | Scottish fold cat | 73049001 | C0324509 |
| SRT | L-80A87 | Shorthaired cat | 132665002 | C1296918 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | L-80A55 | Siamese cat | 65694005 | C0324515 |
| SRT | L-80A56 | Singapura cat | 10136006 | C0324516 |
| SRT | L-80A57 | Somali cat | 4042003 | C0324517 |
| SRT | L-80A58 | Tonkinese cat | 44855006 | C0324518 |
| SRT | L-80A59 | Turkish angora cat | 50441005 | C0324519 |
| SRT | L-80705 | Affenpinscher | 52946002 | C0324297 |
| SRT | L-80706 | Afghan hound | 77213006 | C0324298 |
| SRT | L-80707 | Airedale terrier | 3921008 | C0324299 |
| SRT | L-80708 | Akita dog | 84514002 | C0324300 |
| SRT | L-80709 | Alaskan malamute | 53228008 | C0324301 |
| SRT | L-807A4 | American foxhound | 88779009 | C0324369 |
| SRT | L-80711 | Australian cattle dog | 11746005 | C0324303 |
| SRT | L-80710 | Australian terrier | 112491001 | C0324302 |
| SRT | L-80712 | Basenji | 47659007 | C0324304 |
| SRT | L-80713 | Basset hound | 41320000 | C0324305 |
| SRT | L-80714 | Beagle | 44696006 | C0324306 |
| SRT | L-80715 | Bedlington terrier | 1514007 | C0324307 |
| SRT | L-80716 | Belgian groenendael dog | 74536009 | C0324308 |
| SRT | L-80717 | Belgian laeken dog | 76554006 | C0324309 |
| SRT | L-80718 | Belgian malinois dog | 37116003 | C0324310 |
| SRT | L-80719 | Belgian sheepdog | 85144002 | C0324311 |
| SRT | L-80720 | Belgian tervuren dog | 27444002 | C0324312 |
| SRT | L-80721 | Bernese mountain dog | 33458006 | C0324313 |
| SRT | L-80722 | Bichons frise dog | 41538003 | C0324314 |
| SRT | L-80723 | Bloodhound | 81529001 | C0324315 |
| SRT | L-80724 | Border terrier | 69529009 | C0324316 |
| SRT | L-80725 | Borzoi dog | 112492008 | C0324317 |
| SRT | L-80726 | Boston terrier | 79295007 | C0324318 |
| SRT | L-80727 | Bouvier des Flandres | 66712005 | C0324319 |
| SRT | L-80728 | Boxer dog | 42250008 | C0324320 |
| SRT | L-80729 | Briard dog | 10369004 | C0324321 |
| SRT | L-80730 | Bull terrier | 23995009 | C0324322 |
| SRT | L-80735 | Bulldog | 38184008 | C0324327 |
| SRT | L-80736 | Bullmastiff | 71175006 | C0324328 |
| SRT | L-80737 | Cairn terrier | 87111007 | C0324329 |
| SRT | L-80738 | Cavalier King Charles spaniel | 66495005 | C0324330 |
| SRT | L-80744 | Chow Chow | 28751008 | C0324335 |
| SRT | L-80750 | Collie | 19078005 | C0324336 |
| SRT | L-80760 | Coonhound | 73319009 | C0324341 |
| SRT | L-80777 | Dalmatian dog | 5916008 | C0324355 |
| SRT | L-80778 | Dandie dinmont terrier | 3347005 | C0324356 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | L-80780 | Doberman pinscher | 47075006 | C0324358 |
| SRT | L-80781 | Drever dog | 56984005 | C0324359 |
| SRT | L-807A5 | English foxhound | 59975009 | C0324370 |
| SRT | L-80782 | English toy spaniel | 67088002 | C0324360 |
| SRT | L-80790 | Eskimo dog | 89450005 | C0324361 |
| SRT | L-80793 | Finnish spitz dog | 83504004 | C0324364 |
| SRT | L-807B0 | Foxhound | 90101001 | C0324371 |
| SRT | L-807B1 | French bulldog | 59643008 | C0324372 |
| SRT | L-807B2 | German shepherd dog | 42252000 | C0324373 |
| SRT | L-807B4 | Great Pyrenees dog | 32670005 | C0324375 |
| SRT | L-807B3 | Great dane dog | 27615007 | C0324374 |
| SRT | L-807B5 | Greyhound | 112494009 | C0324376 |
| SRT | L-807C0 | Griffon dog | 55058007 | C0324377 |
| SRT | L-807C3 | Harrier dog | 76724004 | C0324380 |
| SRT | L-80702 | Hound | 25097001 | C0324295 |
| SRT | L-807C4 | Ibizan hound | 10842007 | C0324381 |
| SRT | L-807C6 | Irish terrier | 75494002 | C0324383 |
| SRT | L-807C5 | Irish wolfhound | 52952001 | C0324382 |
| SRT | L-807C7 | Italian greyhound | 30347000 | C0324384 |
| SRT | L-807C8 | Jack Russel terrier | 6103004 | C0324385 |
| SRT | L-807C9 | Japanese chin dog | 53922000 | C0324387 |
| SRT | L-807D0 | Japanese spaniel | 23159000 | C0324387 |
| SRT | L-807D1 | Karelian bear dog | 84660008 | C0324388 |
| SRT | L-807D2 | Keeshond | 81607005 | C0324389 |
| SRT | L-807D3 | Kerry blue terrier | 32591006 | C0324390 |
| SRT | L-807D4 | Komondor dog | 46239008 | C0324391 |
| SRT | L-807D5 | Kuvasz dog | 84548001 | C0324392 |
| SRT | L-807D6 | Lakeland terrier | 78214003 | C0324393 |
| SRT | L-807D7 | Lhasa apso | 36438004 | C0324394 |
| SRT | L-807D8 | Maltese dog | 39348004 | C0324395 |
| SRT | L-80803 | Mastiff dog | 48524002 | C0324399 |
| SRT | L-80804 | Mexican hairless dog | 78246003 | C0324400 |
| SRT | L-80805 | Miniature pinscher dog | 12131006 | C0324401 |
| SRT | L-80806 | Newfoundland dog | 52253003 | C0324402 |
| SRT | L-80807 | Norfolk terrier | 62790004 | C0324403 |
| SRT | L-80808 | Norwegian elkhound | 76994004 | C0324404 |
| SRT | L-80809 | Norwich terrier | 26332008 | C0324405 |
| SRT | L-80810 | Old English sheepdog | 87029004 | C0324406 |
| SRT | L-80811 | Otter hound | 58116005 | C0324407 |
| SRT | L-80812 | Papillon dog | 41263004 | C0324408 |
| SRT | L-80813 | Pekingese dog | 67684001 | C0324409 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | L-80814 | Petit basset griffon vendeen dog | 47542005 | C0324410 |
| SRT | L-80815 | Pharaoh hound | 14876008 | C0324411 |
| SRT | L-80816 | Plott hound | 40400008 | C0324412 |
| SRT | L-80820 | Pointer | 73318001 | C0324413 |
| SRT | L-80824 | Pomeranian dog | 10040000 | C0324417 |
| SRT | L-80834 | Portuguese water dog | 63390008 | C0324422 |
| SRT | L-80835 | Pudelpointer | 61286000 | C0324423 |
| SRT | L-80836 | Pug dog | 60252000 | C0324424 |
| SRT | L-80837 | Puli dog | 21039009 | C0324425 |
| SRT | L-80840 | Retriever | 1974006 | C0324426 |
| SRT | L-80847 | Rhodesian ridgeback dog | 74173000 | C0324433 |
| SRT | L-80848 | Rottweiler dog | 14245006 | C0324434 |
| SRT | L-80849 | Saluki dog | 59528003 | C0324435 |
| SRT | L-80850 | Samoyed dog | 69474004 | C0324436 |
| SRT | L-80851 | Schipperke dog | 21150005 | C0324437 |
| SRT | L-80779 | Scottish deerhound | 54858000 | C0324357 |
| SRT | L-80864 | Scottish terrier | 61405001 | C0324442 |
| SRT | L-80865 | Sealyham terrier | 34752004 | C0324443 |
| SRT | L-80870 | Setter | 37453003 | C0324444 |
| SRT | L-80874 | Shetland sheepdog | 50125003 | C0324448 |
| SRT | L-80875 | Shih tzu dog | 31077009 | C0324449 |
| SRT | L-80876 | Siberian huskie | 3674001 | C0324450 |
| SRT | L-80877 | Silky terrier | 39882003 | C0324451 |
| SRT | L-80878 | Skye terrier | 24299002 | C0324452 |
| SRT | L-80879 | Soft-coated wheaten terrier | 47699005 | C0324453 |
| SRT | L-80880 | Spaniel | 45625009 | C0324454 |
| SRT | L-80895 | St. Bernard dog | 83236005 | C0324469 |
| SRT | L-80801 | Standard Manchester terrier | 9131007 | C0324397 |
| SRT | L-80896 | Tahltan bear dog | 61320006 | C0324470 |
| SRT | L-80703 | Terrier | 606003 | C0324296 |
| SRT | L-80897 | Tibetan spaniel | 87219003 | C0324471 |
| SRT | L-80898 | Tibetan terrier | 17663009 | C0324472 |
| SRT | L-80802 | Toy Manchester terrier | 13942005 | C0324398 |
| SRT | L-80903 | Weimaraner | 69249004 | C0324476 |
| SRT | L-80904 | Welsh terrier | 49421002 | C0324477 |
| SRT | L-80913 | West Highland white terrier | 40727008 | C0324481 |
| SRT | L-80914 | Whippet dog | 76351004 | C0324482 |
| SRT | L-807C2 | Wirehaired pointing griffon dog | 33401005 | C0324379 |
| SRT | L-88120 | Wolf | 82676003 | C0325001 |
| SRT | L-80915 | Yorkshire terrier | 13284009 | C0324483 |
| SRT | L-80105 | Aberdeen Angus cow breed | 84923006 | C0324046 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | L-80106 | Ayrshire cow breed | 8989009 | C0324047 |
| SRT | L-80108 | Black Angus cow breed | 409905004 | C1444147 |
| SRT | L-80112 | Blonde d'Aquitaine cow breed | 62153005 | C0324049 |
| SRT | L-80113 | Brahma cow breed | 30384003 | C0324050 |
| SRT | L-80115 | Brown Swiss cow breed | 44230005 | C0324052 |
| SRT | L-80116 | Canadian cow breed | 21921002 | C0324053 |
| SRT | L-80118 | Chianina cow breed | 35229007 | C0324055 |
| SRT | L-80119 | Criollo cow breed | 83996001 | C0324056 |
| SRT | L-80120 | Dexter cow breed | 53031002 | C0324057 |
| SRT | L-80130 | Galloway cow breed | 66911005 | C0324058 |
| SRT | L-80131 | Belted Galloway cow breed | 13544004 | C0324059 |
| SRT | L-80132 | Gelbveih cow breed | 76497003 | C0324060 |
| SRT | L-80133 | German Fleck-Vieh cow breed | 67448000 | C0324061 |
| SRT | L-80134 | Gir cow breed | 32938007 | C0324062 |
| SRT | L-80135 | Guernsey cow breed | 84839000 | C0324063 |
| SRT | L-80136 | Gujarati cow breed | 112485003 | C0324064 |
| SRT | L-80137 | Hays converter cow breed | 23629009 | C0324065 |
| SRT | L-80141 | Horned Hereford cow breed | 7843000 | C0324067 |
| SRT | L-80142 | Polled Hereford cow breed | 9277006 | C0324068 |
| SRT | L-80143 | Holstein-Friesian cow breed | 26105007 | C0324069 |
| SRT | L-80144 | Jersey cow breed | 51937006 | C0324070 |
| SRT | L-80145 | Limousin cow breed | 48702000 | C0324071 |
| SRT | L-80146 | Lincoln red cow breed | 3216001 | C0324072 |
| SRT | L-80147 | Longhorn cow breed | 66314009 | C0324073 |
| SRT | L-80148 | Luing cow breed | 21553004 | C0324074 |
| SRT | L-80149 | Maine Anjou cow breed | 45284002 | C0324075 |
| SRT | L-80150 | Marchigiana cow breed | 65344003 | C0324076 |
| SRT | L-80151 | Meusse-Rhine-Ijssel cow breed | 6112002 | C0324077 |
| SRT | L-80153 | Nellore cow breed | 76604009 | C0324079 |
| SRT | L-80154 | Normandie cow breed | 81267004 | C0324080 |
| SRT | L-80156 | Pinzgauer cow breed | 400003 | C0324082 |
| SRT | L-80157 | Red Poll cow breed | 88807001 | C0324083 |
| SRT | L-80158 | Salers cow breed | 90612002 | C0324084 |
| SRT | L-80160 | Scottish Highland cow breed | 83173002 | C0324086 |
| SRT | L-80170 | Shorthorn cow breed | 80835003 | C0324087 |
| SRT | L-80171 | Milking Shorthorn cow breed | 78541007 | C1297523 |
| SRT | L-80172 | Simmental cow breed | 28483003 | C0324089 |
| SRT | L-80173 | Tarentaise cow breed | 50959000 | C0324090 |
| SRT | L-80174 | Black Welsh cow breed | 28744004 | C0324091 |
| SRT | L-80175 | Brown Welsh cow breed | 944009 | C0324092 |
| SRT | L-80176 | White Park cow breed | 26525003 | C0324093 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | L-801E8 | Bison bison X Simmental hybrid | 424705003 | C1828053 |
| SRT | L-80205 | Alpine goat breed | 70431006 | C0324094 |
| SRT | L-80206 | French alpine goat breed | 5438004 | C0324095 |
| SRT | L-80207 | Rock alpine goat breed | 74745008 | C0324096 |
| SRT | L-80208 | Angora goat breed | 64158000 | C0324097 |
| SRT | L-80209 | Camarron goat breed | 9230001 | C0324098 |
| SRT | L-80210 | Chamoisee goat breed | 89708009 | C0324099 |
| SRT | L-80211 | La Mancha goat breed | 55530007 | C0324100 |
| SRT | L-80212 | Anglo nubian goat breed | 16015002 | C0324101 |
| SRT | L-80213 | Pygmy goat breed | 684003 | C0324102 |
| SRT | L-80214 | Saanen goat breed | 21208000 | C0324103 |
| SRT | L-80215 | Swiss alpine goat breed | 28360002 | C0324104 |
| SRT | L-80216 | Toggenburg goat breed | 30089001 | C0324105 |
| SRT | L-80218 | Australian goat breed | 131608000 | C1296065 |
| SRT | L-80219 | Arapawa Island goat breed | 131609008 | C1296066 |
| SRT | L-8021A | Maltese goat breed | 131610003 | C1296067 |
| SRT | L-8021B | Provençale goat breed | 131611004 | C1321441 |
| SRT | L-8021C | Negra Serrana goat breed | 131612006 | C1296068 |
| SRT | L-8021D | Orobica goat breed | 131613001 | C1296069 |
| SRT | L-8021E | Roya-Vesubie goat breed | 131614007 | C1296070 |
| SRT | L-8021F | Retinta Extremena goat breed | 131615008 | C1296071 |
| SRT | L-80220 | Appenzell goat breed | 131616009 | C1296072 |
| SRT | L-80221 | American Cashmere goat breed | 131617000 | C1296073 |
| SRT | L-80222 | Altai Mountain goat breed | 131618005 | C1269141 |
| SRT | L-80223 | Pyrenean goat breed | 131619002 | C1269142 |
| SRT | L-80224 | Bagot goat breed | 131620008 | C1296074 |
| SRT | L-80225 | Russian White goat breed | 131621007 | C1269143 |
| SRT | L-80226 | Moxotó goat breed | 131622000 | C1321442 |
| SRT | L-80227 | Myotonic goat breed | 131623005 | C1269144 |
| SRT | L-80228 | Nachi goat breed | 131624004 | C1296075 |
| SRT | L-80229 | Nigerian Dwarf goat breed | 131625003 | C1269145 |
| SRT | L-8022A | Sarda goat breed | 131626002 | C1296076 |
| SRT | L-8022B | Serpentina goat breed | 131627006 | C1296077 |
| SRT | L-8022C | Serrana goat breed | 131628001 | C1296078 |
| SRT | L-8022D | Verata goat breed | 131629009 | C1296079 |
| SRT | L-8022E | Verzasca goat breed | 131630004 | C1296080 |
| SRT | L-80230 | Norwegian goat breed | 131631000 | C1269146 |
| SRT | L-80231 | Oberhasli goat breed | 131632007 | C1296081 |
| SRT | L-80232 | Peacock goat breed | 131633002 | C1296082 |
| SRT | L-80233 | Philippine goat breed | 131634008 | C1296083 |
| SRT | L-80234 | Loashan goat breed | 131635009 | C1296084 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | L-80235 | San Clemente goat breed | 131636005 | C1296085 |
| SRT | L-80236 | Somali goat breed | 131637001 | C1296086 |
| SRT | L-80237 | Spanish goat breed | 131638006 | C1296087 |
| SRT | L-80238 | Rove goat breed | 131639003 | C1296088 |
| SRT | L-80239 | SRD goat breed | 131640001 | C1296089 |
| SRT | L-80240 | Swedish Landrace goat breed | 131641002 | C1269147 |
| SRT | L-80241 | Thuringian goat breed | 131642009 | C1269148 |
| SRT | L-80242 | Uzbek Black goat breed | 131643004 | C1269149 |
| SRT | L-80243 | Zhongwei goat breed | 131644005 | C1296090 |
| SRT | L-80244 | Barbari goat breed | 131645006 | C1296091 |
| SRT | L-80245 | Poitou goat breed | 131646007 | C1296092 |
| SRT | L-80246 | Repartida goat breed | 131647003 | C1296093 |
| SRT | L-80247 | Booted goat breed | 131648008 | C1269150 |
| SRT | L-80248 | Corsican goat breed | 131649000 | C1269151 |
| SRT | L-80249 | Chapar goat breed | 131650000 | C1296094 |
| SRT | L-80250 | Canindé goat breed | 131651001 | C1321443 |
| SRT | L-80251 | Canary Island goat breed | 131652008 | C1296095 |
| SRT | L-80252 | Daera Din Panah goat breed | 131653003 | C1296096 |
| SRT | L-80253 | British Alpine goat breed | 131654009 | C1269152 |
| SRT | L-80254 | Bhuj goat breed | 131655005 | C1296097 |
| SRT | L-80255 | Boer goat breed | 131656006 | C1296098 |
| SRT | L-80256 | Benadir goat breed | 131657002 | C1296099 |
| SRT | L-80257 | Creole Antilles goat breed | 131658007 | C1269153 |
| SRT | L-80258 | Beetal goat breed | 131659004 | C1296100 |
| SRT | L-80259 | Golden Guernsey goat breed | 131660009 | C1296101 |
| SRT | L-80260 | Danish Landrace goat breed | 131661008 | C1269154 |
| SRT | L-80261 | Kaghani goat breed | 131662001 | C1296102 |
| SRT | L-80263 | Irish goat breed | 131663006 | C1269155 |
| SRT | L-80265 | Grisons Striped goat breed | 131664000 | C1269156 |
| SRT | L-80266 | Jining Gray goat breed | 131665004 | C1269157 |
| SRT | L-80267 | Finnish Landrace goat breed | 131666003 | C1269158 |
| SRT | L-80268 | Erzgebirg goat breed | 131667007 | C1296103 |
| SRT | L-80269 | Kamori goat breed | 131668002 | C1296104 |
| SRT | L-80270 | Don goat breed | 131669005 | C1296105 |
| SRT | L-80271 | Kiko goat breed | 131670006 | C1296106 |
| SRT | L-80272 | Kinder goat breed | 131671005 | C1296107 |
| SRT | L-80273 | Pygora goat breed | 131672003 | C1296108 |
| SRT | L-80274 | Wooden Leg goat breed | 131673008 | C1269159 |
| SRT | L-80275 | Alpine Chamoisee goat breed | 131674002 | C1296109 |
| SRT | L-80276 | Massif Central goat breed | 131675001 | C1269160 |
| SRT | L-80277 | Malagueña goat breed | 131676000 | C1321444 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | L-80278 | Algarvia goat breed | 131677009 | C1296110 |
| SRT | L-80279 | British Saanen goat breed | 131678004 | C1269161 |
| SRT | L-80280 | British Toggenburg goat breed | 131679007 | C1269162 |
| SRT | L-80281 | Bündner goat breed | 131680005 | C1321445 |
| SRT | L-80282 | Blanca Andaluza goat breed | 131681009 | C1296111 |
| SRT | L-80283 | Blanca Celtiberica goat breed | 131682002 | C1296112 |
| SRT | L-80284 | Bravia goat breed | 131683007 | C1296113 |
| SRT | L-80285 | Black Grisonne goat breed | 131684001 | C1269163 |
| SRT | L-80286 | Chamois of the Alps goat breed | 131685000 | C1296114 |
| SRT | L-80287 | Charnequeria goat breed | 131686004 | C1296115 |
| SRT | L-80288 | Carpathe goat breed | 131687008 | C1296116 |
| SRT | L-80289 | Col Noir du Valais goat breed | 131688003 | C1296117 |
| SRT | L-80290 | Damani goat breed | 131689006 | C1296118 |
| SRT | L-80291 | Des Fosses (Communes de l'Ouest) goat breed | 131690002 | C1296119 |
| SRT | L-80292 | English goat breed | 131691003 | C1296120 |
| SRT | L-80293 | English Guernsey goat breed | 131692005 | C1296121 |
| SRT | L-80294 | German colored goat breed | 131693000 | C1269164 |
| SRT | L-80295 | Guadarrama goat breed | 131694006 | C1296122 |
| SRT | L-80296 | Garganica goat breed | 131695007 | C1296123 |
| SRT | L-80297 | Girgentana goat breed | 131696008 | C1296124 |
| SRT | L-80298 | Jonica goat breed | 131697004 | C1296125 |
| SRT | L-80299 | Murciana-Granadina goat breed | 131698009 | C1296126 |
| SRT | L-80306 | Barbados sheep breed | 25660007 | C0324107 |
| SRT | L-80307 | Black faced Highland sheep breed | 65187008 | C0324108 |
| SRT | L-80308 | Cheviot sheep breed | 50717006 | C0324109 |
| SRT | L-80309 | Clun Forest sheep breed | 48697009 | C0324110 |
| SRT | L-80310 | Corriedale sheep breed | 67515002 | C0324111 |
| SRT | L-80311 | Cotswold sheep breed | 67414001 | C0324112 |
| SRT | L-80312 | Debouillet sheep breed | 44835005 | C0324113 |
| SRT | L-80321 | Horn dorset sheep breed | 86920006 | C0324115 |
| SRT | L-80322 | Finnish landrace sheep breed | 72329005 | C0324116 |
| SRT | L-80323 | Karakul sheep breed | 64591001 | C0324117 |
| SRT | L-80324 | Kerry Hill sheep breed | 11967001 | C0324118 |
| SRT | L-80325 | Leicester sheep breed | 6431001 | C0324119 |
| SRT | L-80326 | Lincoln sheep breed | 65492002 | C0324120 |
| SRT | L-80327 | Hampshire Down sheep breed | 82440005 | C0324121 |
| SRT | L-80331 | American merino sheep breed | 73191001 | C0324123 |
| SRT | L-80332 | Delaine merino sheep breed | 46392004 | C0324124 |
| SRT | L-80333 | Montdale sheep breed | 5164003 | C0324125 |
| SRT | L-80334 | Mouflon sheep breed | 45690005 | C0324126 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| SRT | L-80335 | Navajo sheep breed | 59210004 | C0324127 |
| SRT | L-80336 | No-tail sheep breed | 112486002 | C0324128 |
| SRT | L-80337 | North County cheviot sheep breed | 87962009 | C0324129 |
| SRT | L-80338 | Oxford Down sheep breed | 53360003 | C0324130 |
| SRT | L-80339 | Panama sheep breed | 13934009 | C0324131 |
| SRT | L-80340 | Perendale sheep breed | 41706005 | C0324132 |
| SRT | L-80341 | Rambouillet sheep breed | 2124007 | C0324133 |
| SRT | L-80342 | Romanov sheep breed | 32145006 | C0324134 |
| SRT | L-80343 | Romedale sheep breed | 79603002 | C0324135 |
| SRT | L-80344 | Romnelet sheep breed | 112487006 | C0324136 |
| SRT | L-80345 | Romney marsh sheep breed | 3099004 | C0324137 |
| SRT | L-80346 | Shropshire sheep breed | 4574003 | C0324138 |
| SRT | L-80347 | Southdown sheep breed | 3566006 | C0324139 |
| SRT | L-80348 | Suffolk sheep breed | 72648002 | C0324140 |
| SRT | L-80349 | Targhee sheep breed | 89665001 | C0324141 |
| SRT | L-80350 | Wiltshire horn sheep breed | 39855006 | C0324142 |
| SRT | L-80405 | American Albino horse breed | 45790002 | C0324147 |
| SRT | L-80406 | American Buckskin horse breed | 90050009 | C0324148 |
| SRT | L-80407 | American cream horse breed | 26837006 | C0324149 |
| SRT | L-80408 | American miniature horse breed | 54699009 | C0324150 |
| SRT | L-80409 | American paint horse breed | 7623008 | C0324151 |
| SRT | L-80410 | American saddlebred horse breed | 42724005 | C0324152 |
| SRT | L-80411 | American trotter horse breed | 26973000 | C0324153 |
| SRT | L-80412 | American tunis horse breed | 72394007 | C0324154 |
| SRT | L-80413 | Andalusian horse breed | 80777007 | C0324155 |
| SRT | L-80414 | Appaloosa horse breed | 55167009 | C0324156 |
| SRT | L-80415 | Arabian horse breed | 54098002 | C0324157 |
| SRT | L-80416 | Belgian horse breed | 22720009 | C0324158 |
| SRT | L-80417 | Canadian horse breed | 47842004 | C0324159 |
| SRT | L-80418 | Cleveland bay horse breed | 41092008 | C0324160 |
| SRT | L-80419 | Clydesdale horse breed | 1247002 | C0324161 |
| SRT | L-80421 | Fjord horse breed | 89648005 | C0324162 |
| SRT | L-80422 | Galiceno horse breed | 6220006 | C0324163 |
| SRT | L-80423 | Hackney horse breed | 112488001 | C0324164 |
| SRT | L-80424 | Haflinger horse breed | 54447000 | C0324165 |
| SRT | L-80425 | Hanoverian horse breed | 66168008 | C0324166 |
| SRT | L-80426 | Holsteiner horse breed | 25813002 | C0324167 |
| SRT | L-80427 | Hunter horse breed | 19356005 | C0324168 |
| SRT | L-80428 | Icelandic horse breed | 70457009 | C0324169 |
| SRT | L-80429 | Lipizzaner horse breed | 41754002 | C0324170 |
| SRT | L-80430 | Missouri fox trotting horse breed | 12360007 | C0324171 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| SRT | L-80431 | Morgan horse breed | 21295007 | C0324172 |
| SRT | L-80433 | New Forest pony horse breed | 26699009 | C0324173 |
| SRT | L-80435 | Norman coach horse breed | 39532001 | C0324174 |
| SRT | L-80436 | Palomino horse breed | 41738000 | C0324175 |
| SRT | L-80437 | Paso Fino horse breed | 56086005 | C0324176 |
| SRT | L-80438 | Percheron horse breed | 1006005 | C0324177 |
| SRT | L-80439 | Peruvian Paso horse breed | 4960000 | C0324178 |
| SRT | L-80440 | Pinto horse breed | 58264006 | C0324179 |
| SRT | L-80450 | Pony horse breed | 3997000 | C0324180 |
| SRT | L-80451 | American pony horse breed | 46408008 | C0324181 |
| SRT | L-80452 | Shetland pony horse breed | 69067004 | C0324182 |
| SRT | L-80453 | Ariégeois pony horse breed | 396488006 | C1321492 |
| SRT | L-80454 | Quarter horse breed | 76467006 | C0324183 |
| SRT | L-80455 | Shire horse breed | 13487004 | C0324184 |
| SRT | L-80456 | Spanish mustang horse breed | 76302002 | C0324185 |
| SRT | L-80457 | Standardbred horse breed | 34200004 | C0324186 |
| SRT | L-80458 | Suffolk horse breed | 53567001 | C0324187 |
| SRT | L-80459 | Tennessee walking horse breed | 51023000 | C0324188 |
| SRT | L-80461 | Trakehner horse breed | 1789009 | C0324190 |
| SRT | L-80462 | Viking horse breed | 1118004 | C0324191 |
| SRT | L-80463 | Welsh walking horse breed | 8089006 | C0324192 |
| SRT | L-80464 | Westphalian horse breed | 25369002 | C0324193 |
| SRT | L-80465 | Yorkshire coach horse breed | 31633003 | C0324194 |
| SRT | L-80495 | Draft pony superbreed horse breed | 425253007 | C1827769 |
| SRT | L-804A0 | American draft pony horse breed | 425118005 | C1827471 |
| SRT | L-804B0 | Pindos pony horse breed | 424111008 | C1828122 |
| SRT | L-804C0 | Skyros pony horse breed | 423926000 | C1827647 |
| SRT | L-80505 | Beltsville pig breed | 48394005 | C0324195 |
| SRT | L-80510 | Berkshire pig breed | 112489009 | C0324225 |
| SRT | L-80511 | Kentucky red berkshire pig breed | 33551003 | C0324199 |
| SRT | L-80520 | Boar power pig breed | 74899005 | C0324200 |
| SRT | L-80521 | Boar power pig 27 pig breed | 76364003 | C0324201 |
| SRT | L-80522 | Boar power pig 48 pig breed | 32297006 | C0324202 |
| SRT | L-80523 | Boar power pig 59 pig breed | 53431006 | C0324203 |
| SRT | L-80524 | Boar power pig 72 pig breed | 18212001 | C0324204 |
| SRT | L-80525 | Boar power pig 84 pig breed | 30720007 | C0324205 |
| SRT | L-80526 | Boar power pig 141 pig breed | 68512002 | C0324206 |
| SRT | L-80527 | Boar power pig 161 pig breed | 74970001 | C0324207 |
| SRT | L-80528 | Boar power pig 282 pig breed | 87061000 | C0324208 |
| SRT | L-80529 | Boar power pig 292 pig breed | 56084008 | C0324209 |
| SRT | L-80530 | Boar power pig 414 pig breed | 24319000 | C0324210 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | L-80531 | Boar power pig 454 pig breed | 43500007 | C0324211 |
| SRT | L-80532 | Boar power pig 474 pig breed | 84315000 | C0324212 |
| SRT | L-80533 | Boar power pig 545 pig breed | 61036003 | C0324213 |
| SRT | L-80534 | Boar power pig 565 pig breed | 29223008 | C0324214 |
| SRT | L-80535 | Boar power pig 616 pig breed | 33212007 | C0324215 |
| SRT | L-80536 | Boar power pig 656 pig breed | 48470006 | C0324216 |
| SRT | L-80537 | Boar power pig 747 pig breed | 84081007 | C0324217 |
| SRT | L-80538 | Boar power pig 828 pig breed | 34595003 | C0324218 |
| SRT | L-80539 | Boar power pig 929 pig breed | 25856007 | C0324219 |
| SRT | L-80540 | British lop pig breed | 22506004 | C0324220 |
| SRT | L-80541 | British saddleback pig breed | 15961007 | C0324221 |
| SRT | L-80550 | CPF pig breed | 24840008 | C0324222 |
| SRT | L-80553 | Chester white pig breed | 69461005 | C0324225 |
| SRT | L-80554 | Connor prairie pig breed | 29881002 | C0324226 |
| SRT | L-80560 | DK pig breed | 74921000 | C0324227 |
| SRT | L-80561 | DK pig 30 pig breed | 41561001 | C0324228 |
| SRT | L-80562 | DK pig 31 pig breed | 36570001 | C0324229 |
| SRT | L-80563 | DK pig 33 pig breed | 6053007 | C0324230 |
| SRT | L-80564 | DK pig 51 pig breed | 8516002 | C0324231 |
| SRT | L-80565 | DK pig 61 pig breed | 61973002 | C0324232 |
| SRT | L-80566 | DK pig 63 pig breed | 112490000 | C0324233 |
| SRT | L-80567 | DK pig 77 pig breed | 11161001 | C0324234 |
| SRT | L-80568 | Duroc pig breed | 3260001 | C0324235 |
| SRT | L-80570 | FHC pig breed | 89928000 | C0324236 |
| SRT | L-80571 | FHC elite pig 1 pig breed | 45635003 | C0324237 |
| SRT | L-80572 | FHC elite pig 2 pig breed | 59667000 | C0324238 |
| SRT | L-80573 | FHC elite pig 3 pig breed | 24111007 | C0324239 |
| SRT | L-80574 | FHC elite pig 4 pig breed | 47795006 | C0324240 |
| SRT | L-80575 | FHC elite pig 5 pig breed | 67720004 | C0324241 |
| SRT | L-80576 | FHC elite pig 6 pig breed | 49462008 | C0324242 |
| SRT | L-80577 | FHC elite pig 7 pig breed | 32683006 | C0324243 |
| SRT | L-80578 | FHC elite pig 8 pig breed | 73005003 | C0324244 |
| SRT | L-80579 | FHC elite pig 9 pig breed | 14063001 | C0324245 |
| SRT | L-8057A | Gloucester old spot pig breed | 90885005 | C0324246 |
| SRT | L-80580 | Hampshire pig breed | 20280002 | C0324247 |
| SRT | L-80581 | Hereford pig breed | 19770007 | C0324248 |
| SRT | L-80582 | Hormel miniature pig breed | 86694007 | C0324249 |
| SRT | L-80590 | Kleen leen pig breed | 69602006 | C0324250 |
| SRT | L-80591 | Kleen leen black pig breed | 36111002 | C0324251 |
| SRT | L-80592 | Kleen leen red pig breed | 84232003 | C0324252 |
| SRT | L-80593 | Kleen leen white pig breed | 57613003 | C0324253 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | L-80594 | Lacombe pig breed | 30448006 | C0324254 |
| SRT | L-80600 | Landrace pig breed | 80131009 | C0324255 |
| SRT | L-80601 | Belgium landrace pig breed | 10261003 | C0324256 |
| SRT | L-80602 | British landrace pig breed | 78994007 | C0324257 |
| SRT | L-80603 | Danish landrace pig breed | 84528008 | C0324258 |
| SRT | L-80604 | Dutch landrace pig breed | 58311005 | C0324259 |
| SRT | L-80605 | French landrace pig breed | 8970009 | C0324260 |
| SRT | L-80606 | German landrace pig breed | 8763002 | C0324261 |
| SRT | L-80607 | Italian landrace pig breed | 71923001 | C0324262 |
| SRT | L-80608 | Norwegian landrace pig breed | 42948007 | C0324263 |
| SRT | L-80609 | Swedish landrace pig breed | 12407009 | C0324264 |
| SRT | L-80610 | Large black pig breed | 21021000 | C0324265 |
| SRT | L-80611 | Large white pig breed | 77236002 | C0324266 |
| SRT | L-80612 | Lucie pig breed | 80084005 | C0324267 |
| SRT | L-80620 | Maryland pig breed | 60958006 | C0324268 |
| SRT | L-80622 | Middle white pig breed | 82909008 | C0324270 |
| SRT | L-80630 | Minnesota pig breed | 61083001 | C0324271 |
| SRT | L-80640 | Montana pig breed | 74517004 | C0324275 |
| SRT | L-80642 | OIC pig breed | 9135003 | C0324277 |
| SRT | L-80643 | Oxford sandy block pig breed | 5227002 | C0324278 |
| SRT | L-80644 | Palouse pig breed | 49240006 | C0324279 |
| SRT | L-80650 | Pic pig breed | 75709004 | C0324280 |
| SRT | L-80651 | Pic Cambourgh pig breed | 17717005 | C0324281 |
| SRT | L-80652 | Pic line pig 24 pig breed | 86440008 | C0324282 |
| SRT | L-80653 | Pic line pig 26 pig breed | 29235007 | C0324283 |
| SRT | L-80654 | Pietrain pig breed | 20044005 | C0324284 |
| SRT | L-80655 | Poland China pig breed | 79814001 | C0324285 |
| SRT | L-80656 | Red wattle pig breed | 74568001 | C0324286 |
| SRT | L-80657 | San Pierre pig breed | 80979001 | C0324287 |
| SRT | L-80658 | Spotted pig breed | 36187006 | C0324288 |
| SRT | L-80659 | Tamworth pig breed | 30634003 | C0324289 |
| SRT | L-80660 | Welsh pig breed | 54232006 | C0324290 |
| SRT | L-80661 | Wessex saddleback pig breed | 73648005 | C0324291 |
| SRT | L-80662 | Yorkshire pig breed | 85315007 | C0324292 |
| SRT | L-80663 | Yuca pig breed | 15443006 | C0324293 |
| SRT | L-80731 | American pit bull terrier dog breed | 12390000 | C0324323 |
| SRT | L-80732 | Colored bull terrier dog breed | 86593006 | C0324324 |
| SRT | L-80733 | Staffordshire bull terrier dog breed | 83216009 | C0324325 |
| SRT | L-80734 | White bull terrier dog breed | 42902003 | C0324326 |
| SRT | L-80740 | Chihuahua superbreed dog breed | 9761009 | C0324331 |
| SRT | L-80741 | Long coat chihuahua dog breed | 36611001 | C0324332 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-80742 | Short coat chihuahua dog breed | 15966002 | C0324333 |
| SRT | L-80743 | Long and short coat chihuahua dog breed | 57349006 | C0324334 |
| SRT | L-80751 | Bearded collie dog breed | 75911001 | C0324337 |
| SRT | L-80752 | Rough collie dog breed | 31377001 | C0324338 |
| SRT | L-80753 | Rough and smooth dog breed | 58341007 | C0324339 |
| SRT | L-80754 | Smooth collie dog breed | 10544000 | C0324340 |
| SRT | L-80761 | American coonhound dog breed | 63269002 | C0324342 |
| SRT | L-80762 | Black and tan coonhound dog breed | 45561005 | C0324343 |
| SRT | L-80763 | Blue tick coonhound dog breed | 55959002 | C0324344 |
| SRT | L-80764 | English coonhound dog breed | 31281003 | C0324345 |
| SRT | L-80765 | Redbone coonhound dog breed | 25171009 | C0324346 |
| SRT | L-80766 | Treeing walker coonhound dog breed | 57120006 | C0324347 |
| SRT | L-80771 | Longhaired miniature dachshund dog breed | 57429001 | C0324349 |
| SRT | L-80772 | Smooth miniature dachshund dog breed | 112493003 | C0324350 |
| SRT | L-80773 | Wirehaired miniature dachshund dog breed | 56243001 | C0324351 |
| SRT | L-80774 | Longhaired standard dachshund dog breed | 59492009 | C0324352 |
| SRT | L-80775 | Smooth standard dachshund dog breed | 69862006 | C0324353 |
| SRT | L-80776 | Wirehaired standard dachshund dog breed | 36274006 | C0324354 |
| SRT | L-8077A | Dachshund, Miniature dog breed | 132369002 | C1296662 |
| SRT | L-8077B | Standard dachshund dog breed | 416885007 | C1562201 |
| SRT | L-80791 | American eskimo dog breed | 31392000 | C0324362 |
| SRT | L-80792 | Canadian eskimo dog breed | 91553005 | C0324363 |
| SRT | L-807A0 | Fox terrier superbreed dog breed | 35802007 | C0324365 |
| SRT | L-807A1 | Smooth fox terrier dog breed | 8351009 | C0324366 |
| SRT | L-807A2 | Wire fox terrier dog breed | 41584008 | C0324367 |
| SRT | L-807A3 | Toy fox terrier dog breed | 26639007 | C0324368 |
| SRT | L-80800 | Manchester terrier superbreed dog breed | 5306005 | C0324396 |
| SRT | L-80821 | German longhaired pointer dog breed | 1420005 | C0324414 |
| SRT | L-80822 | German shorthaired pointer dog breed | 86767001 | C0324415 |
| SRT | L-80823 | German wirehaired pointer dog breed | 25264009 | C0324416 |
| SRT | L-80830 | Poodle superbreed dog breed | 15171008 | C0324418 |
| SRT | L-80831 | Toy poodle dog breed | 25243005 | C0324419 |
| SRT | L-80832 | Miniature poodle dog breed | 40121001 | C0324420 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-80833 | Standard poodle dog breed | 507002 | C0324421 |
| SRT | L-80841 | Chesapeake Bay retriever dog breed | 13248002 | C0324427 |
| SRT | L-80842 | Curly-coated retriever dog breed | 38449002 | C0324428 |
| SRT | L-80843 | Flat-coated retriever dog breed | 9528004 | C0324429 |
| SRT | L-80844 | Golden retriever dog breed | 58108001 | C0324430 |
| SRT | L-80845 | Labrador retriever dog breed | 62137007 | C0324431 |
| SRT | L-80846 | Nova Scotia duck tolling retriever dog breed | 26229008 | C0324432 |
| SRT | L-80860 | Schnauzer superbreed dog breed | 91429002 | C0324438 |
| SRT | L-80861 | Miniature schnauzer dog breed | 300004 | C0324439 |
| SRT | L-80862 | Giant schnauzer dog breed | 57947002 | C0324440 |
| SRT | L-80863 | Standard schnauzer dog breed | 69592005 | C0324441 |
| SRT | L-80871 | English setter dog breed | 84367001 | C0324445 |
| SRT | L-80872 | Gordon setter dog breed | 57849000 | C0324446 |
| SRT | L-80873 | Irish setter dog breed | 11477006 | C0324447 |
| SRT | L-80881 | American water spaniel dog breed | 31971008 | C0324455 |
| SRT | L-80882 | Brittany spaniel dog breed | 12091005 | C0324456 |
| SRT | L-80883 | Clumber spaniel dog breed | 67977006 | C0324457 |
| SRT | L-80884 | American cocker spaniel dog breed | 22697009 | C0324458 |
| SRT | L-80885 | Black cocker spaniel dog breed | 82206008 | C0324459 |
| SRT | L-80886 | A.S.C.O.B. cocker spaniel dog breed | 30565000 | C0324460 |
| SRT | L-80887 | Parti-color cocker spaniel dog breed | 58888001 | C0324461 |
| SRT | L-80888 | English Springer spaniel dog breed | 62228004 | C0324462 |
| SRT | L-80889 | Field spaniel dog breed | 27385008 | C0324463 |
| SRT | L-80891 | Irish water spaniel dog breed | 34870009 | C0324465 |
| SRT | L-80892 | Sussex spaniel dog breed | 80576000 | C0324466 |
| SRT | L-80893 | Welsh Springer spaniel dog breed | 40898002 | C0324467 |
| SRT | L-80894 | English cocker spaniel dog breed | 21418008 | C0324468 |
| SRT | L-80900 | Vizsla superbreed dog breed | 52105008 | C0324473 |
| SRT | L-80901 | Smooth haired vizsla dog breed | 90444005 | C0324474 |
| SRT | L-80902 | Wirehaired vizsla dog breed | 583000 | C0324475 |
| SRT | L-80910 | Welsh corgi superbreed dog breed | 37024005 | C0324478 |
| SRT | L-80911 | Cardigan Welsh corgi dog breed | 60517007 | C0324479 |
| SRT | L-80912 | Pembroke Welsh corgi dog breed | 46725009 | C0324480 |
| SRT | L-88106 | Alaskan Klee Kai dog breed | 406725008 | C1318889 |
| SRT | L-88107 | Anatolian shepherd dog breed | 409926004 | C1444156 |
| SRT | L-88108 | Boerboel dog breed | 416840006 | C1562437 |
| SRT | L-8810A | Victorian Bulldogge dog breed | 426571006 | C1960598 |
| SRT | L-8880C | American bobtail cat breed | 413488005 | C1531503 |
| SRT | L-8880D | Pixie-bob cat breed | 417277001 | C1563194 |
| SRT | L-8A105 | Warmblood horse breed | 407402001 | C1319938 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | L-8A106 | Brabant horse breed | 406711007 | C1318886 |
| SRT | L-8A10B | Equus caballus gmelini horse breed | 125084002 | C1265528 |
| SRT | L-8A10C | Gypsy Vanner horse breed | 406714004 | C1320154 |
| SRT | L-8A10D | Murgese horse breed | 406715003 | C1320155 |
| SRT | L-8A114 | Saddlebred horse superbreed horse breed | 427136006 | C1960600 |
| SRT | L-8B102 | Ukrainian steppe white pig breed | 406663005 | C1320232 |
| SRT | L-8B943 | Bos taurus indicus cow breed | 125091004 | C1136004 |
| SRT | L-8B946 | Bos taurus taurus subspecies domestic European cow breed | 385474004 | C1272763 |
| SRT | L-8B948 | Masai cow breed | 409908002 | C1444150 |
| SRT | L-8B949 | Bos taurus X Bison bison hybrid cow breed | 425181009 | C3164484 |
| SRT | L-8C339 | Galway sheep breed | 406660008 | C1318989 |
| SRT | L-86B49 | New Zealand rabbit breed | 132901006 | C0324547 |

CID 7481 Breed Registry

Type: Extensible
Version: 20060822

Table CID 7481. Breed Registry

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 109200 | America Kennel Club |
| DCM | 109201 | America's Pet Registry Inc. |
| DCM | 109202 | American Canine Association |
| DCM | 109203 | American Purebred Registry |
| DCM | 109204 | American Rare Breed Association |
| DCM | 109205 | Animal Registry Unlimited |
| DCM | 109206 | Animal Research Foundation |
| DCM | 109207 | Canadian Border Collie Association |
| DCM | 109208 | Canadian Kennel Club |
| DCM | 109209 | Canadian Livestock Records Association |
| DCM | 109210 | Canine Federation of Canada |
| DCM | 109211 | Continental Kennel Club |
| DCM | 109212 | Dog Registry of America |
| DCM | 109213 | Federation of International Canines |
| DCM | 109214 | International Progressive Dog Breeders' Alliance |
| DCM | 109215 | National Kennel Club |
| DCM | 109216 | North American Purebred Dog Registry |
| DCM | 109217 | United All Breed Registry |
| DCM | 109218 | United Kennel Club |
| DCM | 109219 | Universal Kennel Club International |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------------------|
| DCM | 109220 | Working Canine Association of Canada |
| DCM | 109221 | World Kennel Club |
| DCM | 109222 | World Wide Kennel Club |

Note

The contents of this table were derived from the information available at <http://www.canadasguidetodogs.com/breederinfo/breedregistries.htm>.

CID 7482 DX Anatomy Imaged for Animals

Type: Extensible
Version: 20090717

Table CID 7482. DX Anatomy Imaged for Animals

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| Include CID 7483 "Common Anatomic Regions for Animals" | | |

CID 7483 Common Anatomic Regions for Animals

Type: Extensible
Version: 20160314

Table CID 7483. Common Anatomic Regions for Animals

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Notes |
|--------------------------|------------|-------------------------|----------------------|------------------------|-------------|
| SRT | T-D4000 | Abdomen | 113345001 | C0000726 | |
| SRT | T-D8030 | All legs | 42694008 | C0230331 | |
| SRT | T-1531B | Atlantal-axial joint | 361832004 | C1284202 | |
| SRT | T-15311 | Atlanto-occipital joint | 20292002 | C0004169 | |
| SRT | T-74000 | Bladder | 89837001 | C0005682 | |
| SRT | T-12771 | Calcaneal tubercle | 82474009 | C0223921 | See Note 1. |
| SRT | T-D8600 | Carpus | 8205005 | C0043262 | See Note 2. |
| SRT | T-11501 | Cervical spine | 122494005 | C0728985 | |
| SRT | T-D00F7 | Cervico-thoracic spine | 297171002 | C0729373 | |
| SRT | T-D3000 | Chest | 51185008 | C0817096 | |
| SRT | R-FAB55 | Chest and Abdomen | 416550000 | C1442171 | |
| SRT | T-11B02 | Coccygeal vertebrae | 361774004 | C1305250 | See Note 3. |
| SRT | T-59300 | Colon | 71854001 | C0009368 | |
| SRT | T-D0310 | Digit | 82680008 | C0582802 | |
| SRT | T-110A2 | Distal phalanx | 299711006 | C0576464 | |
| SRT | T-15430 | Elbow joint | 16953009 | C0013770 | |
| SRT | T-D0010 | Entire body | 38266002 | C0229960 | |
| SRT | T-56000 | Esophagus | 32849002 | C0014876 | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Notes |
|--------------------------|------------|-------------------------------|----------------------|------------------------|-------------|
| SRT | T-12710 | Femur | 71341001 | C0015811 | |
| SRT | T-D8640 | Fetlock of forelimb | 13190002 | C0521445 | |
| SRT | T-D9540 | Fetlock of hindlimb | 113351006 | C0521446 | |
| SRT | T-D04F2 | Forefoot | 419176008 | C1630649 | |
| SRT | T-22200 | Frontal sinus | 55060009 | C0016734 | |
| SRT | T-D9713 | Hindfoot | 416804009 | C0230459 | |
| SRT | T-15710 | Hip joint | 24136001 | C0019558 | |
| SRT | T-12410 | Humerus | 85050009 | C0020164 | |
| SRT | T-11503 | Lumbar spine | 122496007 | C0024091 | |
| SRT | T-D00F9 | Lumbo-sacral spine | 297173004 | C0574025 | |
| SRT | T-11180 | Mandible | 91609006 | C0024687 | |
| SRT | T-54170 | Mandibular dental arch | 88176008 | C0227027 | |
| SRT | T-540EE | Mandibular incisor teeth | 442274007 | C2711599 | |
| SRT | T-54160 | Maxillary dental arch | 39481002 | C0227026 | |
| SRT | T-540ED | Maxillary incisor teeth | 442100006 | C2711204 | |
| SRT | T-1254D | Metacarpus | 181977005 | C1269064 | |
| SRT | T-12847 | Metatarsus | 280711000 | C0025590 | |
| SRT | T-22000 | Nasal sinus | 2095001 | C0030471 | |
| SRT | T-12450 | Navicular of forefoot | 30518006 | C0223724 | See Note 4. |
| SRT | T-127EC | Navicular of hindfoot | 182100005 | C1306480 | See Note 4. |
| SRT | T-D14AD | Orbital region | 181143004 | C1278884 | |
| SRT | T-D8650 | Pastern of forefoot | 31329001 | C0230368 | |
| SRT | T-D9550 | Pastern of hindfoot | 18525008 | C0230455 | |
| SRT | T-12730 | Patella | 64234005 | C0030647 | |
| SRT | T-D6000 | Pelvis | 12921003 | C0030797 | |
| SRT | T-12403 | Radius and ulna | 110535000 | C1267080 | |
| SRT | T-11AD0 | Sacrum | 54735007 | C0036037 | |
| SRT | T-D2220 | Shoulder | 16982005 | C0037004 | |
| SRT | T-11100 | Skull | 89546000 | C0037303 | |
| SRT | T-15728 | Stifle | 116010006 | C1456798 | |
| SRT | T-12761 | Tarsus | 108371006 | C0039316 | See Note 5. |
| SRT | T-11502 | Thoracic spine | 122495006 | C0581269 | |
| SRT | T-D00F8 | Thoraco-lumbar spine | 297172009 | C0729374 | |
| SRT | T-12701 | Tibia and fibula | 110536004 | C0224692 | |
| SRT | T-50110 | Upper gastro-intestinal tract | 62834003 | C3203348 | |
| SRT | T-75000 | Urethra | 13648007 | C0041967 | |
| SRT | T-7000C | Urinary tract | 431938005 | C2316969 | |
| SRT | T-D8040 | Wing | 53036007 | C0043189 | |

Note

1. T-12771 is used in preference to (T-12770, SRT, "Calcaneus").
2. T-D8600 is used in preference to carpal (wrist) joint.
3. T-11B02 is used in preference to (T-11BF0, SRT, "coccyx") as used for humans, since the animal possess a tail.
4. T-127EC assumes correspondence between equine hindfoot and human navicular, and T-12450 the equine forefoot navicular and human scaphoid (distal sesamoid).
5. T-12761 is used for the hock joint.
6. In a prior version of this table, the code T-D8300 was used for T-15430. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.

CID 7484 DX View for Animals

Type: Extensible
Version: 20090717

Table CID 7484. DX View for Animals

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Equivalent per Smallwood et al (see Note 1) | View Position (0018,5101) (see Note 2) |
|--------------------------|------------|---|----------------------|------------------------|---|--|
| SRT | R-40AC9 | Caudodistal-cranioproximal oblique | 442604001 | C2711875 | CdDi-CrPrO | CDDI_CRPRO |
| DCM | 123019 | Caudal 10 degree distal-cranioproximal oblique | | | Cd10Di-CrPrO | CD10DI_CRPRO |
| SRT | R-10244 | Caudocranial | 399196006 | C1302249 | CdCr | CDCR |
| SRT | R-40AAC | Dorso-ventral | 441672003 | C2711888 | DV | DV |
| SRT | R-40AE8 | Dorsolateral-palmaromedial oblique | 442657000 | C2711164 | DL-PaMO | DL_PAMO |
| SRT | R-40AFC | Dorsal 35 degree lateral-palmaromedial oblique | 442746003 | C2711306 | D35L-PaMO | D35L_PAMO |
| SRT | R-40AC2 | Dorsal 45 degree lateral-palmaromedial oblique | 442597009 | C2711375 | D40L-PaMO | D40L_PAMO |
| SRT | R-40AE1 | Dorsal 60 degree lateral-palmaromedial oblique | 442639001 | C2711552 | D60L-PaMO | D60L_PAMO |
| SRT | R-40ACF | Dorsolateral-plantaromedial oblique | 442610001 | C2711357 | DL-PIMO | DL_PLMO |
| SRT | R-40ACB | Dorsal 35 degree lateral-plantaromedial oblique | 442606004 | C2711526 | D35L-PIMO | D35L_PLMO |
| SRT | R-40AB6 | Dorsal 40 degree lateral-plantaromedial oblique | 442585008 | C2711113 | D40L-PIMO | D40L_PLMO |
| SRT | R-40AE4 | Dorsal 45 degree lateral-plantaromedial oblique | 442643002 | C2711847 | D45L-PIMO | D45L_PLMO |
| SRT | R-40AC6 | Dorsal 60 degree lateral-plantaromedial oblique | 442601009 | C2711458 | D60L-PIMO | D60L_PLMO |
| SRT | R-40AF2 | Dorsomedial-palmarolateral | 442729001 | C2711331 | DM-PaLO | DM_PALO |
| SRT | R-40AB5 | Dorsal 35 degree medial-palmarolateral oblique | 442583001 | C2711696 | D35M-PaLO | D35M_PALO |
| SRT | R-40AD2 | Dorsal 40 degree medial-palmarolateral oblique | 442621005 | C2711285 | D40M-PaLO | D40M_PALO |
| SRT | R-40AD4 | Dorsal 45 degree medial-palmarolateral | 442623008 | C2711915 | D45M-PaLO | D45M_PALO |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Equivalent per Smallwood et al (see Note 1) | View Position (0018,5101) (see Note 2) |
|---------------------------------|-------------------|--|-----------------------------|-------------------------------|--|---|
| SRT | R-40AC7 | Dorsal 60 degree medial-palmarolateral oblique | 442602002 | C2711324 | D60M-PaLO | D60M_PALO |
| SRT | R-40AD0 | Dorsomedial-plantarolateral oblique | 442611002 | C2711889 | DM-PILO | DM_PLLO |
| SRT | R-40ACD | Dorsal 35 degree medial-plantarolateral oblique | 442608003 | C2711459 | D35M-PILO | D35M_PLLO |
| SRT | R-40AD3 | Dorsal 40 degree medial-plantarolateral oblique | 442622003 | C2711796 | D40M-PILO | D40M_PLLO |
| SRT | R-40AC5 | Dorsal 45 degree medial-plantarolateral oblique | 442600005 | C2711927 | D45M-PILO | D45M_PLLO |
| SRT | R-40AE3 | Dorsal 60 degree medial-plantarolateral oblique | 442641000 | C2711111 | D60M-PILO | D60M_PLLO |
| SRT | R-40AA9 | Dorsopalmar | 441505008 | C2711365 | DPa | DPA |
| SRT | R-102C4 | Dorsoplantar | 399335002 | C1302328 | DPI | DPL |
| SRT | R-40AFA | Dorsoproximal-palmarodistal oblique | 442744000 | C2711302 | DPr-PaDiO | DPR_PADIO |
| SRT | R-40ACE | Dorsal 65 degree proximal-palmarodistal oblique | 442609006 | C2711982 | D65Pr-PaDiO | D65PR_PADIO |
| SRT | R-40ABD | Dorsoproximal-plantarodistal oblique | 442592003 | C2711493 | DPr-PIDiO | DPR_PLDIO |
| SRT | R-40AD5 | Dorsal 65 degree proximal-plantarodistal oblique | 442624002 | C2711492 | D65Pr-PIDiO | D65PR_PLDIO |
| SRT | R-40AEA | Dorsorostral-ventrocaudal oblique | 442659002 | C2711349 | DR-VcdO | DR_VCDO |
| SRT | R-40AFB | Dorsal 20 degree rostral-ventrocaudal oblique | 442745004 | C2711857 | D20R-VcdO | D20R_VCDO |
| SRT | R-40ADB | Laterodorsoproximal-mediopalmarodistal oblique | 442630002 | C2711603 | LDPr-MpaDiO | LDPR_MPADIO |
| SRT | R-40AB4 | Lateral 45 deg dorsal 50 deg proximal-mediopalmarodistal oblique | 442582006 | C2711607 | L45D50Pr-MpaDiO | L45D50PR_MPADIO |
| SRT | R-40ADC | Laterodorsoproximal-mediopantarodistal oblique | 442631003 | C2711280 | LDPr-MplDiO | LDPR_MPLDIO |
| SRT | R-40AEC | Lateral 45 deg dorsal 50 deg proximal-mediopantarodistal obliq | 442661006 | C2711341 | L45D50Pr-MplDiO | L45D50PR_MPLDIO |
| SRT | R-10228 | Lateromedial | 399352003 | C1302336 | LM | LM |
| SRT | R-40AE0 | Left caudal-right rostral oblique | 442638009 | C2711676 | LeCd-RtRO | LECD_RTRO |
| SRT | R-40AC1 | Left 30 degree caudal-right rostral oblique | 442596000 | C2711191 | Le30Cd-RtRO | LE30CD_RTRO |
| SRT | R-40AE5 | Left dorsal-right ventral oblique | 442644008 | C2711731 | LeD-RtVO | LED_RTVO |
| SRT | R-40AFE | Left 20 degree dorsal-right ventral oblique | 442748002 | C2711090 | Le20D-RtVO | LE20D_RTVO |
| SRT | R-40AC3 | Left 45 degree dorsal-right ventral oblique | 442598004 | C2711566 | Le45D-RtVO | LE45D_RTVO |
| SRT | R-40AE6 | Left rostral-right caudal oblique | 442645009 | C2711712 | LeR-RtCdO | LER_RTCDO |
| SRT | R-40ADD | Left 20 degree rostral-right caudal oblique | 442632005 | C2711611 | Le20R-RtCdO | LE20R_RTCDO |
| SRT | R-40AF5 | Left ventral-right dorsal oblique | 442739007 | C2711567 | LeV-RtDO | LEV_RTDO |
| SRT | R-40ADE | Left 20 degree ventral-right dorsal oblique | 442636008 | C2711048 | Le20V-RtDO | LE20V_RTDO |
| SRT | R-40AC4 | Left 45 degree ventral-right dorsal oblique | 442599007 | C2711214 | Le45V-RtDO | LE45V_RTDO |
| SRT | R-10232 | Left-right lateral | 399198007 | C0442202 | LeRtL | LERTL |
| SRT | R-10224 | Mediolateral | 399260004 | C1302283 | ML | ML |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Equivalent per Smallwood et al (see Note 1) | View Position (0018,5101) (see Note 2) |
|--------------------------|------------|--|----------------------|------------------------|---|--|
| SRT | R-40AF8 | Palmaromedial-dorsolateral | 442742001 | C2711713 | PaM-DLO | PAM_DLO |
| SRT | R-40AF6 | Palmar 45 degree medial-dorsolateral | 442740009 | C2711011 | Pa45M-DLO | PA45M_DLO |
| SRT | R-40AEE | Palmaroproximal-dorsodistal oblique | 442674000 | C2711216 | PaPr-DdiO | PAPR_DDIO |
| SRT | R-40ABC | Palmar 75 degree proximal-dorsodistal oblique | 442591005 | C2711901 | Pa75Pr-DdiO | PA75PR_DDIO |
| SRT | R-40AE9 | Plantarolateral-dorsomedial oblique | 442658005 | C2711876 | PIL-DMO | PLL_DMO |
| SRT | R-40AEF | Plantar 60 degree lateral-dorsomedial oblique | 442675004 | C2711846 | PI60L-DMO | PL60L_DMO |
| SRT | R-40AD6 | Plantaroproximal-dorsodistal oblique | 442625001 | C2711623 | PIPr-DdiO | PLPR_DDIO |
| SRT | R-40AC8 | Plantar 75 degree proximal-dorsodistal oblique | 442603007 | C2711019 | PI75Pr-DdiO | PL75PR_DDIO |
| SRT | R-40AD7 | Proximo-distal | 442626000 | C2711034 | PrDi | PRDI |
| SRT | R-40ADA | Right caudal-left rostral oblique | 442629007 | C2711940 | RtCd-LeRO | RTCD_LERO |
| SRT | R-40ACA | Right 30 degree caudal-left rostral oblique | 442605000 | C2711100 | Rt30Cd-LeRO | RT30CD_LERO |
| SRT | R-40ACC | Right dorsal-left ventral oblique | 442607008 | C2711018 | RtD-LeVO | RTD_LEVO |
| SRT | R-40AD8 | Right 20 degree dorsal-left ventral oblique | 442627009 | C2711553 | Rt20D-LeVO | RT20D_LEVO |
| SRT | R-40AEB | Right 45 degree dorsal-left ventral oblique | 442660007 | C2711527 | Rt45D-LeVO | RT45D_LEVO |
| SRT | R-40AFD | Right rostral-left caudal oblique | 442747007 | C2711062 | RtR-LeCdO | RTR_LECDO |
| SRT | R-40AF9 | Right 20 degree rostral-left caudal oblique | 442743006 | C2711101 | Rt20R-LeCdO | RT20R_LECDO |
| SRT | R-40AC0 | Right ventral-left dorsal oblique | 442595001 | C2711096 | RtV-LeDO | RTV_LEDO |
| SRT | R-40AD1 | Right 20 degree ventral-left dorsal oblique | 442612009 | C2711475 | Rt20V-LeDO | RT20V_LEDO |
| SRT | R-40AD9 | Right 45 degree ventral-left dorsal oblique | 442628004 | C2711108 | Rt45V-LeDO | RT45V_LEDO |
| SRT | R-10236 | Right-left lateral | 399173006 | C0442198 | RtLeL | RTLEL |
| SRT | R-40AF0 | Rostrocaudal | 442690000 | C2711917 | RCd | RCD |
| SRT | R-40ADF | Rostrodorsal-caudoventral oblique | 442637004 | C2711827 | RD-CdVO | RD_CDVO |
| SRT | R-40AF3 | Rostral 20 degree dorsal-caudoventral oblique | 442730006 | C2711131 | R20D-CdVO | R20D_CDVO |
| SRT | R-40AB7 | Rostroventral-caudodorsal | 442586009 | C2711328 | RV-CdDO | RV_CDDO |
| SRT | R-40AB9 | Rostral 30 degree ventral-caudodorsal | 442588005 | C2711866 | R30V-CdDO | R30V_CDDO |
| SRT | R-40ABB | Ventral left-dorsal right oblique | 442590006 | C2711811 | VLe-DrtO | VLE_DRTO |
| SRT | R-40ABA | Ventral 30 degree left-dorsal right oblique | 442589002 | C2711892 | V30Le-DrtO | V30LE_DRTO |
| SRT | R-40AF4 | Ventral right-dorsal left oblique | 442738004 | C2711043 | VRt-DleO | VRT_DLEO |
| SRT | R-40AB8 | Ventral 30 degree right-dorsal left oblique | 442587000 | C2711044 | V30Rt-DleO | V30RT_DLEO |
| SRT | R-40AB0 | Ventro-dorsal | 442441009 | C2711041 | VD | VD |
| SRT | R-40AF7 | Ventrorostral-dorsocaudal oblique | 442741008 | C2711233 | VR-DCdO | VR_DCDO |
| SRT | R-40AF1 | Ventral 20 degree rostral-dorsocaudal oblique | 442721003 | C2711179 | V20R-DCdO | V20R_DCDO |

Note

1. The Smallwood et al equivalent may also be used as the Code Meaning (0008,0104) (i.e., as a synonym) in place of the full text described here, and as the value for View Name (0008,2127), if sent.

2. The Defined Terms for View Position are derived from the Smallwood et al equivalent by capitalizing and replacing hyphens with underscores.

CID 7486 Mixed Breeds

Type: Extensible
Version: 20080324

Table CID 7486. Mixed Breeds

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------|----------------------|------------------------|
| SRT | L-80A74 | Mixed breed cat | 132653001 | C1269327 |
| SRT | L-80217 | Mixed breed goat | 131607005 | C1296064 |
| SRT | L-809DF | Mixed breed dog | 132619000 | C1269316 |
| SRT | L-8A10F | Mixed breed horse | 406721004 | C1320156 |
| SRT | L-8C33A | Mixed breed sheep | 406722006 | C1320157 |
| SRT | L-93791 | Mixed breed chicken | 406723001 | C1320158 |
| SRT | L-8B947 | Mixed breed cattle | 409906003 | C1444148 |
| SRT | L-8B103 | Mixed breed pig | 417012009 | C1562822 |

CID 7490 Research Animal Source Registries

Type: Extensible
Version: 20151110

Table CID 7490. Research Animal Source Registries

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| DCM | 126850 | ILCR | | |

CID 7600 Lymph Node Anatomic Sites

Type: Extensible
Version: 20160314

Table CID 7600. Lymph Node Anatomic Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | T-C4400 | abdominal lymph node | 8568009 | C0588058 |
| SRT | T-C4130 | anterior auricular lymph node | 25247006 | C0229713 |
| SRT | T-C4240 | anterior cervical lymph node | 5727003 | C0229734 |
| SRT | T-C4361 | anterior mediastinal lymph node | 5296000 | C0229758 |
| SRT | T-C4866 | anterior tibial lymph node | 303713004 | C0229861 |
| SRT | T-C4480 | aortic lymph node | 35783009 | C0229789 |
| SRT | T-C4740 | apical axillary lymph node | 16051009 | C0229842 |
| SRT | T-C4592 | appendicular lymph node | 46157003 | C0229805 |
| SRT | T-C4710 | axillary lymph node | 68171009 | C0729594 |
| SRT | T-C471E | axillary vein lymph node | 421624008 | C0447170 |
| SRT | T-C4155 | buccinator lymph node | 143925009 | C0229720 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| SRT | T-C430A | cardiophrenic angle lymph node | 371013005 | C1299596 |
| SRT | T-C4410 | celiac lymph node | 47985009 | C0229766 |
| SRT | T-C4730 | central axillary lymph node | 283001 | C0229841 |
| SRT | T-C4200 | cervical lymph node | 81105003 | C0588054 |
| SRT | T-C4560 | colic lymph node | 8356004 | C0229800 |
| SRT | T-C4446 | common duct lymph node | 280639005 | C0229801 |
| SRT | T-C4770 | cubital lymph node | 34775006 | C0229846 |
| SRT | T-C4445 | cystic lymph node | 280556009 | C0229770 |
| SRT | T-C4019 | deep anterior cervical lymph node | 168360002 | C0229735 |
| SRT | T-C4202 | deep cervical lymph node | 279145002 | C0458298 |
| SRT | T-C4820 | deep inguinal lymph node | 65266007 | C0229850 |
| SRT | T-C4143 | deep intraparotid lymph node | 75040000 | C0229717 |
| SRT | T-C4018 | deep lateral cervical lymph node | 167864002 | C0229728 |
| SRT | T-C4002 | deep lymph node | 60996007 | C0229698 |
| SRT | T-C4146 | deep parotid lymph node | 279142004 | C0458295 |
| SRT | T-C4851 | deep popliteal lymph node | 35721009 | C0229857 |
| SRT | T-C4263 | delphian lymph node | 167664004 | C0229741 |
| SRT | T-C4309 | diaphragmatic lymph node | 196751009 | C0229762 |
| SRT | T-C4670 | epigastric lymph node | 60965003 | C0229829 |
| SRT | T-C4780 | epitrochlear lymph node | 28870006 | C0229847 |
| SRT | T-C4365 | esophageal lymph node | 11899006 | C0229760 |
| SRT | T-C4620 | external iliac lymph node | 65349008 | C0229815 |
| SRT | T-C471F | external mammary lymph node | 421988007 | C0447171 |
| SRT | T-28812 | extrapulmonary lymph node of lung | 363537007 | C1285483 |
| SRT | T-C4150 | facial lymph node | 48918001 | C0229719 |
| SRT | T-C463E | female genital lymph node | 314736006 | C1282339 |
| SRT | T-C4801 | femoral lymph node | 310545001 | C0588056 |
| SRT | T-C4863 | fibular lymph node | 31171007 | C0229862 |
| SRT | T-C4458 | gastro-omental lymph node | 83380007 | C0229776 |
| SRT | T-C4631 | gluteal lymph node | 80867000 | C0229824 |
| SRT | T-C4404 | gut-associated lymph node | 72381005 | C0229765 |
| SRT | T-C3070 | hemolymph node | 18457007 | C0229690 |
| SRT | T-C4440 | hepatic lymph node | 61492009 | C0229769 |
| SRT | T-C43A1 | highest mediastinal lymph node | 127926002 | C1268042 |
| SRT | T-C4320 | hilar lymph node | 53074004 | C1305372 |
| SRT | T-C4630 | hypogastric lymph node | 69255009 | C0229823 |
| SRT | T-C4563 | ileocolic lymph node | 281676003 | C0229796 |
| SRT | T-C4610 | iliac lymph node | 84219008 | C0229807 |
| SRT | T-C421D | inferior auricular lymph node | 155237005 | C0229714 |
| SRT | T-C4632 | inferior gluteal lymph node | 40684008 | C0229825 |
| SRT | T-C4843 | inferior inguinal lymph node | 85380009 | C0229855 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | T-C4511 | inferior mesenteric lymph node | 113336002 | C0229793 |
| SRT | T-C447D | inferior pancreatic lymph node | 280915003 | C0229787 |
| SRT | T-C447F | inferior pancreaticoduodenal lymph node | 281227003 | C0229785 |
| SRT | T-C4280 | infraclavicular lymph node | 9659009 | C0229743 |
| SRT | T-C4810 | inguinal lymph node | 8928004 | C0729596 |
| SRT | T-C4305 | innominate lymph node | 196821008 | C0229763 |
| SRT | T-C4370 | intercostal lymph node | 64038003 | C0229761 |
| SRT | T-C4642 | interiliac lymph node | 279271008 | C0229821 |
| SRT | T-C4311 | interlobar lymph node of the lung | 127919002 | C1268034 |
| SRT | T-C4612 | intermediate common iliac lymph node | 64556009 | C0229809 |
| SRT | T-C4622 | intermediate external iliac lymph node | 50193000 | C0229817 |
| SRT | T-C4753 | interpectoral lymph node | 420800007 | C0447172 |
| SRT | T-C4500 | intestinal lymph node | 36251007 | C0229791 |
| SRT | T-C4147 | intraglandular parotid lymph node | 143824007 | C0229716 |
| SRT | T-C430B | intramammary lymph node | 443808008 | C2733350 |
| SRT | T-C4308 | intrapulmonary lymph node | 196662004 | C0229749 |
| SRT | T-C4230 | jugular lymph node | 58130000 | C0229731 |
| SRT | T-C4423 | juxtaintestinal lymph node | 279609001 | C0229768 |
| SRT | T-C4602 | lacunar lymph node | 360993001 | C1283709 |
| SRT | T-C4720 | lateral axillary lymph node | 33770006 | C0229840 |
| SRT | T-C4210 | lateral cervical lymph node | 68915008 | C0229727 |
| SRT | T-C4613 | lateral common iliac lymph node | 41145006 | C0229810 |
| SRT | T-C4623 | lateral external iliac lymph node | 40242007 | C0229818 |
| SRT | T-C4238 | lateral jugular lymph node | 168159002 | C0229733 |
| SRT | T-C4306 | lateral pericardial lymph node | 196587000 | C0229748 |
| SRT | T-C4255 | lateral retropharyngeal lymph node | 167464007 | C0229739 |
| SRT | T-C46AB | lateral vesicular lymph node | 278672000 | C0229835 |
| SRT | T-C4312 | lobar lymph node of the lung | 127920008 | C1268035 |
| SRT | T-C421A | lower deep cervical lymph node | 285429007 | C0563315 |
| SRT | T-C4237 | lower jugular lymph node | 245323006 | C0447166 |
| SRT | T-C4800 | lower limb lymph node | 4942000 | C0729767 |
| SRT | T-C43A7 | lower paratracheal (including azygous) lymph node | 127932007 | C1268048 |
| SRT | T-C4490 | lumbar lymph node | 8334002 | C0229790 |
| SRT | T-28910 | lung and tracheobronchial lymph nodes | 110550009 | C1267244 |
| SRT | T-C4000 | lymph node | 59441001 | C0024204 |
| SRT | T-C43AC | lymph node of aortic arch | 127937001 | C1268053 |
| SRT | T-C43AD | lymph node of aortopulmonary window | 127938006 | C1268054 |
| SRT | T-C4442 | lymph node of epiploic foramen | 68878000 | C0229771 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-C4456 | lymph node of greater curvature of stomach | 76878005 | C0229774 |
| SRT | T-C4100 | lymph node of head | 13482005 | C0229710 |
| SRT | T-C4004 | lymph node of head and neck | 312501005 | C0729853 |
| SRT | T-C4452 | lymph node of lesser curvature of stomach | 279784003 | C0229773 |
| SRT | T-C4005 | lymph node of limb | 312503008 | C0729855 |
| SRT | T-C4401 | lymph node of mesentery | 279795009 | C0229792 |
| SRT | T-C4414 | lymph node of stomach | 314730000 | C1282334 |
| SRT | T-C43B3 | lymph node of the pulmonary ligament | 127941002 | C1268057 |
| SRT | T-C4300 | lymph node of thorax | 47109002 | C0229745 |
| SRT | T-D200A | lymph node of trunk | 312502003 | C0729854 |
| SRT | T-C4453 | lymph node ring of cardia of stomach | 279866008 | C0229775 |
| SRT | T-C4102 | mandibular lymph node | 155338003 | C0229724 |
| SRT | T-C4154 | mastoid lymph node | 279143009 | C0458296 |
| SRT | T-C4611 | medial common iliac lymph node | 34625003 | C0229808 |
| SRT | T-C4621 | medial external iliac lymph node | 42472007 | C0229816 |
| SRT | T-C4624 | medial lacunar lymph node | 23198005 | C0229819 |
| SRT | T-C4254 | median retropharyngeal lymph node | 167364008 | C0229738 |
| SRT | T-C4360 | mediastinal lymph node | 62683002 | C0588055 |
| SRT | T-C4417 | mesenteric artery lymph node | 299993000 | C0576734 |
| SRT | T-C4401 | mesenteric lymph node | 279795009 | C0229792 |
| SRT | T-C4565 | midcolic lymph node | 282031000 | C0229798 |
| SRT | T-C4219 | middle deep cervical lymph node | 285427009 | C0563313 |
| SRT | T-C4236 | middle jugular lymph node | 245322001 | C0447167 |
| SRT | T-C4156 | nasolabial lymph node | 144026003 | C0229721 |
| SRT | T-C4626 | obturator lymph node | 36086000 | C0229822 |
| SRT | T-C4110 | occipital lymph node | 3916005 | C0229711 |
| SRT | T-C4474 | pancreatic lymph node | 77778009 | C0229783 |
| SRT | T-C4475 | pancreaticoduodenal lymph node | 76659008 | C0229784 |
| SRT | T-C4470 | pancreaticosplenic lymph node | 16050005 | C0229781 |
| SRT | T-C43AE | para-aortic lymph node of the anterior mediastinum | 127939003 | C1268055 |
| SRT | T-C43B2 | paraesophageal lymph node below carina | 127940001 | C1268056 |
| SRT | T-C4752 | paramammary lymph node | 368550005 | C0229845 |
| SRT | T-C4660 | parametrial lymph node | 3243006 | C0229828 |
| SRT | T-C46A5 | pararectal lymph node | 21875007 | C0229837 |
| SRT | T-C4350 | parasternal lymph node | 82365008 | C0229755 |
| SRT | T-C4340 | paratracheal lymph node | 65690001 | C0229754 |
| SRT | T-C46A4 | paravaginal lymph node | 16228004 | C0229836 |
| SRT | T-C46A0 | paravesicular lymph node | 1439000 | C0229832 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-C4140 | parotid lymph node | 10209003 | C0229715 |
| SRT | T-C4750 | pectoral axillary lymph node | 69691007 | C0229843 |
| SRT | T-C4600 | pelvic lymph node | 54268001 | C0729595 |
| SRT | T-C4411 | perigastric lymph node | 245344006 | C0733937 |
| SRT | T-C447A | peripancreatic lymph node | 245346008 | C0733938 |
| SRT | T-C4850 | popliteal lymph node | 47471008 | C0588057 |
| SRT | T-C4217 | postauricular lymph node | 245328002 | C0229712 |
| SRT | T-C4120 | posterior auricular lymph node | 30793004 | C0229712 |
| SRT | T-C4362 | posterior mediastinal lymph node | 25447008 | C0229759 |
| SRT | T-C4867 | posterior tibial lymph node | 303623000 | C0229860 |
| SRT | T-C4216 | posterior triangle cervical lymph node | 245324000 | C0447168 |
| SRT | T-C46AA | postvesicular lymph node | 278571002 | C0229834 |
| SRT | T-C4522 | prececal lymph node | 281765006 | C0229803 |
| SRT | T-C4822 | prefemoral lymph node | 48193007 | C0229851 |
| SRT | T-C4260 | prelaryngeal lymph node | 74203007 | C0229740 |
| SRT | T-C437C | prepericardial lymph node | 196516004 | C0229747 |
| SRT | T-C4680 | presymphysial lymph node | 6413002 | C0229830 |
| SRT | T-C4244 | pretracheal lymph node | 168460001 | C0229742 |
| SRT | T-C43A5 | prevascular/retrotracheal lymph node | 127930004 | C1268046 |
| SRT | T-C4307 | prevertebral lymph node | 196446004 | C0229746 |
| SRT | T-C46A1 | prevesicular lymph node | 11740004 | C0229833 |
| SRT | T-C4641 | promontory common iliac lymph node | 279189002 | C0229813 |
| SRT | T-C4460 | pyloric lymph node | 24889003 | C0229777 |
| SRT | T-C4003 | regional lymph node | 312500006 | C0729852 |
| SRT | T-C4582 | renal hilar lymph node | 249708006 | C0278453 |
| SRT | T-C4523 | retrocecal lymph node | 281847004 | C0229804 |
| SRT | T-C4580 | retroperitoneal lymph node | 91394001 | C0229802 |
| SRT | T-C4250 | retropharyngeal lymph node | 25683005 | C0229737 |
| SRT | T-C4467 | retropyloric lymph node | 280402004 | C0229780 |
| SRT | T-C43A6 | retrotracheal lymph node (mediastinal) | 127931000 | C1268047 |
| SRT | T-C4650 | sacral lymph node | 79926007 | C0229827 |
| SRT | T-C4290 | scalene lymph node | 81132008 | C0229744 |
| SRT | T-C4313 | segmental lymph node of the lung | 127921007 | C1268036 |
| SRT | T-C4512 | sigmoid lymph node | 30024008 | C0229794 |
| SRT | T-C4473 | splenic lymph node | 280824006 | C0229782 |
| SRT | T-C4614 | subaortic common iliac lymph node | 60227002 | C1305374 |
| SRT | T-C4332 | subcarinal lymph node | 28330007 | C0229753 |
| SRT | T-C4722 | subclavian lymph node | 421861001 | C0447173 |
| SRT | T-C4616 | subiliac lymph node | 113338001 | C0229814 |
| SRT | T-C4160 | submandibular lymph node | 59503006 | C0229722 |
| SRT | T-C4157 | submaxillary lymph node | 144127009 | C0229725 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-C4170 | submental lymph node | 46055009 | C0229723 |
| SRT | T-C4466 | subpyloric lymph node | 280314006 | C0229779 |
| SRT | T-C4760 | subscapular axillary lymph node | 12196003 | C1735587 |
| SRT | T-C4314 | subsegmental lymph node of the lung | 127922000 | C1268037 |
| SRT | T-C401A | superficial anterior cervical lymph node | 168557005 | C0229736 |
| SRT | T-C4201 | superficial cervical lymph node | 279144003 | C0458297 |
| SRT | T-C4840 | superficial inguinal lymph node | 113340006 | C0229852 |
| SRT | T-C4144 | superficial intraparotid lymph node | 68339009 | C0229718 |
| SRT | T-C421E | superficial lateral cervical lymph node | 167965000 | C0229729 |
| SRT | T-C4001 | superficial lymph node | 90606007 | C0229697 |
| SRT | T-C4145 | superficial parotid lymph node | 279141006 | C0458294 |
| SRT | T-C4852 | superficial popliteal lymph node | 12728001 | C0229858 |
| SRT | T-C4633 | superior gluteal lymph node | 76290003 | C0229826 |
| SRT | T-C4842 | superior lateral inguinal lymph node | 76704003 | C0229854 |
| SRT | T-C4841 | superior medial inguinal lymph node | 52554005 | C0229853 |
| SRT | T-C43A0 | superior mediastinal lymph node | 127925003 | C1268041 |
| SRT | T-C4420 | superior mesenteric lymph node | 49394004 | C0229767 |
| SRT | T-C447E | superior pancreatic lymph node | 280999005 | C0229788 |
| SRT | T-C4481 | superior pancreaticoduodenal lymph node | 281320004 | C0229786 |
| SRT | T-C4513 | superior rectal lymph node | 68881005 | C0229795 |
| SRT | T-C4331 | superior tracheobronchial lymph node | 67941004 | C0229752 |
| SRT | T-C4220 | supraclavicular lymph node | 76838003 | C0229730 |
| SRT | T-C4352 | supramammary lymph node | 62630005 | C0229756 |
| SRT | T-C4465 | suprapyloric lymph node | 280216006 | C0229778 |
| SRT | T-C4860 | tibial lymph node | 80769008 | C0229859 |
| SRT | T-C4379 | tracheobronchial lymph node | 245341003 | C0229751 |
| SRT | T-C4330 | tracheobronchial lymph node, located near carina | 89858007 | C0229751 |
| SRT | T-C4218 | upper deep cervical lymph node | 285425001 | C0545582 |
| SRT | T-C4235 | upper jugular lymph node | 245321008 | C0447165 |
| SRT | T-C4700 | upper limb lymph node | 44914007 | C0729769 |
| SRT | T-C43A2 | upper paratracheal lymph node (mediastinal) | 127927006 | C1268043 |
| SRT | T-C4690 | uterine paracervical lymph node | 5394000 | C0229831 |
| SRT | T-C4601 | vesicular lymph node | 360992006 | C1283708 |

CID 7601 Head and Neck Cancer Anatomic Sites

Type: Extensible
Version: 20160314

Table CID 7601. Head and Neck Cancer Anatomic Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-53130 | base of tongue | 47975008 | C0226958 |
| SRT | T-51305 | buccal mucosa | 16811007 | C1578559 |
| SRT | T-51200 | floor of mouth | 36360002 | C0026638 |
| SRT | T-24440 | glottis | 1307006 | C0017681 |
| SRT | T-55300 | hypopharynx | 81502006 | C0020629 |
| SRT | T-24100 | larynx | 4596009 | C0023078 |
| SRT | T-C5140 | lingual tonsil | 2048000 | C0229871 |
| SRT | T-52000 | lip | 48477009 | C0023759 |
| SRT | T-D07CB | lower alveolar ridge | 288546009 | C0222755 |
| SRT | T-22100 | maxillary sinus | 15924003 | C0024957 |
| SRT | T-21301 | nasal cavity | 279549004 | C0027423 |
| SRT | T-23000 | nasopharynx | 71836000 | C0027442 |
| SRT | T-51004 | oral cavity | 74262004 | C0226896 |
| SRT | T-C5000 | oropharyngeal tonsil (waldeyer's ring) | 17861009 | C0459892 |
| SRT | T-55200 | oropharynx | 31389004 | C0521367 |
| SRT | T-C5100 | palatine tonsil | 75573002 | C0040421 |
| SRT | T-51130 | palatine uvula | 26140008 | C0042173 |
| SRT | T-22000 | paranasal sinus | 2095001 | C0030471 |
| SRT | T-C5300 | pharyngeal tonsil (adenoid) | 55940004 | C0001428 |
| SRT | T-55320 | pyriform sinus | 6217003 | C0227170 |
| SRT | T-51600 | retromolar trigone | 85816001 | C0226920 |
| SRT | T-61007 | salivary gland | 385294005 | C0036098 |
| SRT | T-24454 | supraglottis | 119255006 | C0225574 |
| SRT | T-53000 | tongue | 21974007 | C0040408 |
| SRT | T-C5001 | tonsil and adenoid | 303337002 | C0580788 |
| SRT | T-C5330 | tubal tonsil | 21058000 | C0229883 |
| UMLS | C0221297 | unknown primary neoplasia site | | C0221297 |
| SRT | T-51130 | uvula | 26140008 | C0042173 |

CID 7701 Fiber Tracts In Brainstem

Type: Extensible
Version: 20150106

Table CID 7701. Fiber Tracts In Brainstem

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | T-A6620 | superior cerebellar peduncle | 11089000 | C0152391 |
| SRT | T-A6630 | middle cerebellar peduncle | 33723005 | C0152392 |
| SRT | T-A6640 | inferior cerebellar peduncle | 67701001 | C0152393 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | T-D07EA | corticospinal tract in brainstem | 360568007 | C1283381 |
| SRT | T-A5271 | medial lemniscus | 30114003 | C0228420 |
| SRT | T-A5272 | lateral lemniscus | 86136007 | C0152375 |
| SRT | T-A5250 | medial longitudinal fasciculus | 28390009 | C0152373 |

Note

Organized as described in Wakana, Setsu, Hangyi Jiang, Lidia M. Nagae-Poetscher, Peter C. M. van Zijl, and Susumu Mori. "Fiber Tract-based Atlas of Human White Matter Anatomy." Radiology 230, no. 1 (January 1, 2004): 77–87. doi:10.1148/radiol.2301021640:10.1148/radiol.2301021640..

CID 7702 Projection and Thalamic Fibers

Type: Extensible
Version: 20160314

Table CID 7702. Projection and Thalamic Fibers

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|----------------------|---|----------------------|------------------------|
| NEU | 1319 1319 | corticobulbar tract | | C1184617 |
| NEU | 1320 1320 | corticospinal tract | | C0936236 |
| SRT | T-A3700 | internal capsule | 85637007 | C0152341 |
| SRT | T-A3800 | external capsule | 10517005 | C0228313 |
| SRT | T-D0829 | auditory radiation | 410726006 | C1455736 |
| SRT | T-A2880 | optic radiation | 70105001 | C0228277 |
| NEU | 1466 | inferior optic radiation (Meyer's loop) | | C3498430 |
| NEU | 3473 | superior optic radiation (Baum's loop) | | C4020527 |
| NEU | 1726 1726 | anterior thalamic radiation | | C2338170 |
| NEU | 2081 2081 | superior thalamic radiation | | C3498751 |
| NEU | 2082 2082 | inferior thalamic radiation | | C2332665 |
| NEU | 2083 2083 | posterior thalamic radiation | | C2336194 |

Note

- SNOMED has codes for the corticobulbar and corticospinal tracts and thalamic radiations in specific regions (e.g., internal capsule), but not generic codes independent of their regional location, so they are not used.
- (T-D0829, SRT, "auditory radiation") is also known as the acoustic radiation, or geniculotemporal tract.
- (T-A2880, SRT, "optic radiation") is also known as the geniculo-calcarine tract, geniculostriate pathway or posterior thalamic radiation.

CID 7703 Association Fibers

Type: Extensible
Version: 20150106

Table CID 7703. Association Fibers

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|----------------------|--------------------------------------|----------------------|------------------------|
| NEU | 2080 2080 | superior longitudinal fasciculus | | C0228270 |
| DCM | 110703 | superior longitudinal fasciculus I | | |
| DCM | 110704 | superior longitudinal fasciculus II | | |
| DCM | 110705 | superior longitudinal fasciculus III | | |
| NEU | 2063 2063 | arcuate fasciculus | | C2329633 |
| SRT | T-A2850 | inferior longitudinal fasciculus | 55233005 | C0228273 |
| SRT | T-A2860 | superior fronto-occipital fasciculus | 13958008 | C0228274 |
| SRT | T-A2861 | inferior fronto-occipital fasciculus | 35664009 | C0228275 |
| SRT | T-A2830 | uncinate fasciculus | 26230003 | C0228271 |
| SRT | T-A2870 | vertical occipital fasciculus | 80434005 | C0228276 |
| SRT | T-A2861 | inferior fronto-occipital fasciculus | 35664009 | C0228275 |
| SRT | T-A2860 | superior fronto-occipital fasciculus | 13958008 | C0228274 |

Note

The SLF is distinguished from the AF (even though SNOMED and UMLS treat them as synonymous), per Makris N, et al. "Segmentation of Subcomponents within the Superior Longitudinal Fascicle in Humans: A Quantitative, In Vivo, DT-MRI Study." Cerebral Cortex 15, no. 6 (June 1, 2005): 854–69. [doi:10.1093/cercor/bhh186](https://doi.org/10.1093/cercor/bhh186). Hence the SNOMED concept for SLF/AF (T-A2820, 89202009, C0228270) is not used. NeuroNames does not describe the other subcomponents of the SLF than the AF, so DCM codes are assigned.

CID 7704 Limbic System Tracts

Type: Extensible
Version: 20150106

Table CID 7704. Limbic System Tracts

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|--------------------|------------------|----------------------|------------------------|
| SRT | T-A2840 | cingulum | 37035000 | C0228272 |
| SRT | T-A2970 | fornix | 87463005 | C0152334 |
| NEU | 286 286 | stria terminalis | | C0175243 |

CID 7705 Commissural Fibers

Type: Extensible
Version: 20160314

Table CID 7705. Commissural Fibers

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | T-A2980 | anterior commissure | 62872008 | C0152335 |
| SRT | T-A2700 | corpus callosum | 88442005 | C0010090 |
| SRT | T-A2730 | genu of corpus callosum | 70215001 | C0152321 |
| SRT | T-A2710 | splenium of corpus callosum | 23347006 | C0152319 |
| SRT | T-A2781 | tapetum of corpus callosum | 60105000 | C1744614 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | T-A2760 | forceps minor | 42932006 | C0152325 |
| SRT | T-A2750 | forceps major | 80049006 | C0809941 |
| SRT | T-A4904 | posterior commissure | 279336005 | C0152327 |
| SRT | T-A4950 | habenular commissure | 6866008 | C0152363 |

CID 7706 Cranial Nerves

Type: Extensible
Version: 20150106

Table CID 7706. Cranial Nerves

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | T-A2920 | olfactory tract | 3960005 | C0162435 |
| SRT | T-A8040 | optic nerve | 18234004 | C0029130 |
| SRT | T-A8070 | oculomotor nerve | 56193007 | C0028864 |
| SRT | T-A8110 | trochlear nerve | 39322007 | C0041159 |
| SRT | T-A8150 | trigeminal nerve | 27612005 | C0040996 |
| SRT | T-A8130 | abducens nerve | 80622005 | C0000741 |
| SRT | T-A8410 | facial nerve | 56052001 | C0015462 |
| SRT | T-A8500 | vestibulocochlear nerve | 8598002 | C0001162 |
| SRT | T-A8570 | glossopharyngeal nerve | 21161002 | C0017679 |
| SRT | T-A8640 | vagus nerve | 88882009 | C0042276 |
| SRT | T-A8780 | accessory nerve | 15119000 | C0000905 |
| SRT | T-A8820 | hypoglossal nerve | 37899009 | C0020614 |

CID 7707 Spinal Cord Fibers

Type: Extensible
Version: 20150106

Table CID 7707. Spinal Cord Fibers

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | T-A7081 | dorsal funiculus | 59752008 | C0228576 |
| SRT | T-A7061 | ventral funiculus | 31701002 | C0228570 |
| SRT | T-A7091 | lateral funiculus | 14892003 | C0228583 |

CID 7710 Tractography Anatomic Sites

Type: Extensible
Version: 20150106

Table CID 7710. Tractography Anatomic Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|---------------------------------------|----------------------|------------------------|
| <i>Include CID 7701 "Fiber Tracts In Brainstem"</i> | | | | |
| <i>Include CID 7702 "Projection and Thalamic Fibers"</i> | | | | |
| <i>Include CID 7703 "Association Fibers"</i> | | | | |
| <i>Include CID 7704 "Limbic System Tracts"</i> | | | | |
| <i>Include CID 7705 "Commissural Fibers"</i> | | | | |
| <i>Include CID 7706 "Cranial Nerves"</i> | | | | |
| <i>Include CID 7707 "Spinal Cord Fibers"</i> | | | | |
| SRT | T-A6080 | Cerebellar white matter | 33060004 | C0152381 |
| SRT | T-A2030 | Cerebral white matter | 68523003 | C0152295 |
| SRT | T-A7070 | Spinal cord white matter | 27088001 | C0458457 |
| SRT | T-A0095 | White matter of brain and spinal cord | 389080008 | C1300311 |
| DCM | 110706 | Perilesional White Matter | | |
| SRT | T-A0500 | Peripheral nerve | 84782009 | C0031119 |
| SRT | T-D0684 | Skeletal muscle | 127954009 | C0242692 |
| SRT | T-1300D | Cardiac muscle | 122448007 | C0027061 |
| DCM | 113681 | Phantom | | C0282611 |

CID 8101 Container Types

Type: Extensible
Version: 20080626

Table CID 8101. Container Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | A-0101E | Tissue cassette | 434464009 | C0183953 |
| SRT | A-01022 | Tissue microarray cassette | 434708008 | C2315967 |
| SRT | A-01024 | Specimen vial | 434746001 | C2316421 |
| SRT | A-0101B | Microscope slide | 433466003 | C0026017 |
| SRT | A-01023 | Specimen container | 434711009 | C0183391 |
| SRT | A-01021 | Electron microscopy grid | 434533009 | C2316945 |
| SRT | A-01025 | Specimen well | 434822004 | C2316030 |

CID 8102 Container Component Types

Type: Extensible
Version: 20080626

Table CID 8102. Container Component Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------|----------------------|------------------------|
| <i>Include CID 8101 "Container Types"</i> | | | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | A-0101D | Microscope slide cover slip | 433472003 | C0492717 |
| SRT | F-62219 | Microscope slide mounting media | 430862008 | C2316989 |
| SRT | A-0101F | Specimen container lid | 434473001 | C2316420 |

CID 8103 Anatomic Pathology Specimen Types

Type: Extensible
Version: 20080626

Table CID 8103. Anatomic Pathology Specimen Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------------------------------|----------------------|------------------------|
| SRT | T-D0010 | Entire body | 38266002 | C0229960 |
| SRT | G-80A5 | Body substance sample | 309050000 | C0586522 |
| SRT | G-80A6 | Body fluid sample | 309051001 | C1292527 |
| SRT | G-8300 | Tissue specimen | 119376003 | C1292533 |
| SRT | G-843A | Gross specimen | 430861001 | C2316367 |
| SRT | G-8439 | Tissue section | 430856003 | C2316368 |
| SRT | G-843B | Core sample of tissue block | 430970004 | C2316369 |
| SRT | G-843C | Tissue spot | 431196006 | C2316370 |
| SRT | G-81EA | Slide | 258661006 | C0444330 |
| SRT | G-803C | Smear sample | 258433009 | C0444086 |
| SRT | T-1A404 | Touch preparation cytologic material | 430855004 | C2316942 |
| SRT | T-1A403 | Liquid based cytologic material | 430346005 | C2315942 |
| SRT | G-8003 | Aspirate | 119295008 | C0370199 |
| SRT | G-81A0 | Genetic sample | 258562007 | C0444241 |
| Include CID 8104 "Breast Tissue Specimen Types" | | | | |

CID 8104 Breast Tissue Specimen Types

Type: Extensible
Version: 20080626

Table CID 8104. Breast Tissue Specimen Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | G-8346 | breast duct sample | 309548003 | C0587065 |
| SRT | G-8339 | frozen section breast sample | 309059004 | C0586532 |
| SRT | G-833D | lumpectomy breast sample | 309546004 | C0587063 |
| SRT | G-8430 | specimen from breast obtained by excision | 397199005 | C1301275 |
| SRT | G-8311 | specimen from breast obtained by total mastectomy | 122595009 | C1292534 |
| SRT | G-833F | segmentectomy breast sample | 309547008 | C0587064 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | G-832D | breast tru-cut biopsy sample | 309058007 | C0586531 |
| SRT | G-8318 | specimen from breast obtained by core needle biopsy | 122737001 | C1292540 |
| SRT | G-8319 | specimen from breast, stereotactically guided core needle biopsy | 122738006 | C1292541 |
| SRT | G-831B | specimen from breast by incisional biopsy of breast mass | 122739003 | C1292543 |
| SRT | R-003AC | specimen from breast obtained by image guided core biopsy | 373102004 | C1269973 |

CID 8109 Specimen Collection Procedure

Type: Extensible
Version: 20080626

Table CID 8109. Specimen Collection Procedure

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | P1-03130 | Aspiration | 14766002 | C0349707 |
| SRT | P1-03100 | Biopsy | 86273004 | C0005558 |
| SRT | P1-03000 | Excision | 65801008 | C0728940 |
| SRT | P1-03000 | Resection | 65801008 | C0728940 |
| SRT | P1-0D300 | Harvesting of tissue | 53958007 | C0185110 |
| SRT | P1-03021 | Removal of device | 128538000 | C0752250 |
| SRT | P1-38200 | Venipuncture | 22778000 | C0600406 |
| SRT | P0-00593 | Taking of swab | 285570007 | C0563454 |
| SRT | P3-02000 | Specimen collection | 17636008 | C0200345 |
| SRT | P1-03154 | Scraping | 56757003 | C0184933 |

CID 8110 Specimen Sampling Procedure

Type: Extensible
Version: 20160314

Table CID 8110. Specimen Sampling Procedure

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | P1-01003 | Dissection | 122459003 | C0012737 |
| DCM | 111726 | Dissection with entire specimen submission | | |
| DCM | 111727 | Dissection with representative sections submission | | |
| SRT | P3-40011 | Core sampling | 434479002 | C2316564 |
| SRT | P3-4000D | Block sectioning | 434472006 | C2316371 |
| SRT | P3-40004 | Laser microdissection | 433454009 | C2316567 |
| SRT | P3-4000E | Block surface recut | 434474007 | C2316372 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | P3-4000F | Block step sectioning | 434475008 | C2316876 |
| SRT | P3-4500A | Touch preparation (procedure) | 430854000 | C2316781 |
| SRT | P1-0329D | Smear procedure | 448895004 | C3163984 |

CID 8111 Specimen Preparation Procedure

Type: Extensible
Version: 20080626

Table CID 8111. Specimen Preparation Procedure

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | HL7 v3 ActClass equivalent |
|--------------------------|------------|-----------------------------|----------------------|------------------------|----------------------------|
| SRT | P3-02000 | Specimen collection | 17636008 | C0200345 | SPECCOLLECT |
| SRT | P3-05013 | Specimen receiving | 428995007 | C1997702 | CONTREG |
| SRT | P3-4000A | Sampling of tissue specimen | 433465004 | C2316400 | PROC |
| SRT | P3-00003 | Staining | 127790008 | C0487602 | SPCTRT |
| SRT | P3-05000 | Specimen processing | 9265001 | C0037793 | SPCTRT |
| DCM | 111729 | Specimen storage | | | STORE |

CID 8112 Specimen Stains

Type: Extensible
Version: 20160314

Table CID 8112. Specimen Stains

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | C-22860 | acid fast stain | 406976001 | C1318720 |
| SRT | C-2280A | acid phosphatase stain | 255792001 | C0440036 |
| SRT | C-2280B | Albert's stain | 255793006 | C0440037 |
| SRT | C-22963 | alcian blue 8GX stain | 4656000 | C0001933 |
| SRT | C-22932 | alcohol soluble nigrosine stain | 47995002 | C0303908 |
| SRT | C-2286D | aldehyde fuchsin stain | 406981005 | C0491984 |
| SRT | C-22961 | alizarin blue S stain | 54432009 | C0303917 |
| SRT | C-22959 | alizarin cyanine green stain | 21951008 | C0303916 |
| SRT | C-22953 | alizarin red S stain | 65580004 | C0051165 |
| SRT | C-22813 | alizarin yellow GG stain | 27016007 | C0303861 |
| SRT | C-22814 | alizarin yellow R stain | 28622002 | C0619792 |
| SRT | C-2285B | alkaline phosphatase stain | 406971006 | C1318717 |
| SRT | C-2287E | aniline blue stain | 406990003 | C1321796 |
| SRT | C-2280C | auramine stain | 255794000 | C0440038 |
| SRT | C-22873 | azo black stain | 85066006 | C0058437 |
| SRT | C-22929 | azocarmine G (GX) stain | 76048000 | C0303907 |
| SRT | C-22842 | azophloxin stain | 35609001 | C0073022 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | C-22831 | azorubin S stain | 2159007 | C0002406 |
| SRT | C-22945 | azure A stain | 16836001 | C0052826 |
| SRT | C-22946 | azure B stain | 8926000 | C0052827 |
| SRT | C-22944 | azure C stain | 11069001 | C0052828 |
| SRT | C-2286E | bauer's chromic acid leucofuchsin stain | 406982003 | C1318723 |
| SRT | C-22872 | benzo fast scarlet stain | 27844007 | C0303882 |
| SRT | C-2280D | beta-glucuronidase stain | 255795004 | C0440039 |
| SRT | C-22866 | biebrich scarlet stain | 76605005 | C0303878 |
| SRT | C-22848 | bismark brown R stain | 85190005 | C0303871 |
| SRT | C-22848 | bismark brown Y stain | 85190005 | C0303871 |
| SRT | C-22921 | blue shade eosin stain | 1346008 | C0303904 |
| SRT | C-22965 | brazilin stain | 41750006 | C0054031 |
| SRT | C-22934 | brilliant cresyl blue stain | 8342001 | C0054052 |
| SRT | C-22869 | brilliant crocein stain | 86541009 | C0303880 |
| SRT | C-22865 | brilliant orange stain | 8429000 | C0303877 |
| SRT | C-22857 | brilliant yellow stain | 57753006 | C0058441 |
| SRT | C-2283C | butyrate esterase stain | 406955006 | C1321545 |
| SRT | C-2286B | carbol fuchsin stain | 406978000 | C0054697 |
| SRT | C-22971 | carmine stain | 73892005 | C0007250 |
| SRT | C-22972 | carminic acid stain | 432003 | C0054801 |
| SRT | C-22822 | carmoisine A stain | 37575004 | C0052799 |
| SRT | C-22936 | celestine blue B stain | 38707008 | C0055019 |
| SRT | C-2280E | chloroacetate esterase stain | 255796003 | C0440040 |
| SRT | C-2287B | chromic acid stain | 406986000 | C1321562 |
| SRT | C-22838 | chromotrope 2R stain | 85981002 | C0109683 |
| SRT | C-22806 | chrysoidine R stain | 10247008 | C0109694 |
| SRT | C-22805 | chrysoidine Y stain | 16943008 | C0055663 |
| SRT | C-22973 | cochineal stain | 91606004 | C0110382 |
| SRT | C-22837 | colloidal iron stain | 406952009 | C1318877 |
| SRT | C-22851 | Congo red stain | 45106005 | C0009742 |
| SRT | C-22847 | cresyl echt violet stain | 406960005 | C1318879 |
| SRT | C-22840 | cresyl violet stain | 406959000 | C0056484 |
| SRT | C-22833 | crystal ponceau stain | 68459007 | C0303867 |
| SRT | C-22966 | curcumin stain | 89028002 | C0010467 |
| SRT | C-22826 | diamond black stain | 72572003 | C0303866 |
| SRT | C-22871 | durazol red stain | 11780008 | C0303881 |
| SRT | C-22852 | erie garnet stain | 40076005 | C0303873 |
| SRT | C-22839 | eriochrome blue black SE stain | 58631000 | C0059526 |
| SRT | C-22924 | erythrosin B stain | 7434003 | C0014824 |
| SRT | C-22923 | erythrosin Y stain | 5043000 | C0303905 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | C-22854 | Evans blue stain | 22931006 | C0015205 |
| SRT | C-22883 | fast blue B salt stain | 34700000 | C0303888 |
| SRT | C-22881 | fast blue BB salt stain | 91295002 | C0060085 |
| SRT | C-22878 | fast blue RR salt stain | 64112001 | C0303885 |
| SRT | C-22882 | fast garnet GBC salt stain | 89148006 | C0303887 |
| SRT | C-22886 | fast green FCF stain | 24167004 | C0060087 |
| SRT | C-22876 | fast red B salt stain | 40718007 | C0303883 |
| SRT | C-22877 | fast red ITR stain | 47486002 | C0303884 |
| SRT | C-22875 | fast red TR salt stain | 76633005 | C0950478 |
| SRT | C-22867 | fast sulfon black F stain | 88660000 | C0303879 |
| SRT | C-22879 | fast violet B salt stain | 72371006 | C0303886 |
| SRT | C-22859 | fat red 7B stain | 76439002 | C0117300 |
| SRT | C-2280F | Feulgen reaction stain | 255797007 | C0440041 |
| SRT | C-22810 | field's stain | 255798002 | C0440042 |
| SRT | C-22816 | Flagellar stain | 255799005 | C0440043 |
| SRT | C-22A00 | fluorescent stain | 35352008 | C0303920 |
| SRT | C-2286C | fouchet stain | 406980006 | C1318722 |
| SRT | C-22902 | fuchsin acid stain | 60920007 | C0252873 |
| SRT | C-22889 | fuchsin basic stain | 50062004 | C0073578 |
| SRT | C-22935 | gallocyanine stain | 8836009 | C0061013 |
| SRT | F-61968 | giemsa stain | 373646006 | C0017542 |
| SRT | C-22830 | gram stain | 385484003 | C0061856 |
| SRT | C-2286F | hansel stain | 406983008 | C1318724 |
| SRT | C-22967 | hematein stain | 75956008 | C0062204 |
| SRT | C-22968 | hematoxylin stain | 12710003 | C0018964 |
| SRT | C-22817 | immunofluorescent stain | 255800009 | C0183489 |
| SRT | C-2285C | India ink stain | 406972004 | C0123471 |
| SRT | C-22962 | indigo carmine stain | 45475000 | C0021219 |
| SRT | C-22927 | indophenol from naphthol stain | 11727009 | C0303906 |
| SRT | C-22974 | insoluble berlin blue stain | 47030008 | C0303918 |
| SRT | C-22804 | janus green B stain | 68263003 | C0064136 |
| SRT | C-22818 | Jenner-Giemsa stain | 255801008 | C0440044 |
| SRT | C-22899 | kenacid blue R stain | 29342009 | C0303892 |
| SRT | C-22942 | lacmoid stain | 35724001 | C0303910 |
| SRT | C-22819 | Leishman stain | 255802001 | C0440052 |
| SRT | C-22887 | light green SF stain | 89139001 | C0064970 |
| SRT | C-22841 | lissamine fast red B stain | 6701008 | C0303868 |
| SRT | C-22843 | lissamine fast yellow stain | 25079009 | C0303869 |
| SRT | C-22914 | lissamine green B stain | 38543004 | C0061890 |
| SRT | C-22917 | lissamine rhodamine stain | 111102009 | C0303900 |
| SRT | C-2283F | luxol fast blue stain | 406958008 | C0065274 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | C-22890 | malachite green stain | 27120008 | C0065555 |
| SRT | C-2283A | Mallory bleach stain | 406953004 | C1318878 |
| SRT | C-22802 | martius yellow stain | 46139004 | C0303860 |
| SRT | C-2281A | may-Grunwald giemsa stain | 255803006 | C0065757 |
| SRT | C-22937 | meldola blue stain | 24516006 | C0065912 |
| SRT | C-22811 | metanil yellow stain | 54791001 | C0066052 |
| SRT | C-22907 | methyl blue stain | 9010006 | C0303897 |
| SRT | C-2281B | methyl green pyronin stain | 255804000 | C0440045 |
| SRT | C-22809 | methyl orange stain | 42248000 | C0066274 |
| SRT | C-22808 | methyl red stain | 13744001 | C0066279 |
| SRT | F-61A76 | methyl violet stain | 387239001 | C0017440 |
| SRT | C-22947 | methylene blue stain | 6725000 | C0025746 |
| SRT | C-2284A | methylene violet stain | 406961009 | C0492805 |
| SRT | C-22952 | methylene violet stain (Bernthsen) | 31260003 | C0303911 |
| SRT | C-2287F | modified trichrome stain | 406991004 | C1318726 |
| SRT | C-2284B | mucicarmin stain | 406964001 | C0066912 |
| SRT | C-2281C | myeloperoxidase stain | 255805004 | C0440053 |
| SRT | C-22846 | naphthalene black 12B stain | 16788000 | C0303870 |
| SRT | C-22801 | naphthol green B stain | 14958002 | C0303859 |
| SRT | C-22803 | naphthol yellow S stain | 111101002 | C0068424 |
| SRT | C-2285D | naphthol-AS-D-chloracetate esterase stain | 406973009 | C1318718 |
| SRT | C-22928 | neutral red stain | 67956008 | C0027941 |
| SRT | C-2281D | neutrophil alkaline phosphatase stain | 255806003 | C0440046 |
| SRT | C-22891 | new fuchsin stain | 31714001 | C0068661 |
| SRT | C-2284C | night blue stain | 406965000 | C0068751 |
| SRT | C-22941 | nile blue stain | 77073008 | C0068765 |
| SRT | C-22823 | nitrazine yellow stain | 86750008 | C0068806 |
| SRT | C-2281E | nonspecific esterase stain | 255807007 | C0440047 |
| SRT | C-22955 | nuclear fast red stain | 78869007 | C0303913 |
| SRT | C-22863 | oil red O stain | 40808006 | C0069388 |
| SRT | C-22832 | orange G stain | 54221006 | C0069591 |
| SRT | C-22824 | orange II stain | 25941002 | C0069592 |
| SRT | C-2284D | orcein stain | 406966004 | C0069596 |
| SRT | C-22901 | page blue 83 stain | 5442001 | C0303893 |
| SRT | C-22898 | page blue G-90 stain | 2088005 | C0056270 |
| SRT | C-22885 | patent blue V sodium salt stain | 48540004 | C0116465 |
| SRT | C-2281F | periodic acid Schiff stain | 255808002 | C0440048 |
| SRT | R-F748A | permethrin stain | 333111009 | C1446695 |
| SRT | C-2285E | peroxidase stain | 406974003 | C1318719 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | C-22922 | phloxin B stain | 71957009 | C0031567 |
| SRT | C-2284E | phosphotungstic acid-hematoxylin stain | 406967008 | C0491956 |
| SRT | C-22829 | ponceau 3R stain | 65730007 | C0071718 |
| SRT | C-22868 | ponceau S stain | 89856006 | C0071720 |
| SRT | C-22828 | ponceau xylidine stain | 70520000 | C0950345 |
| SRT | C-22855 | pontamine sky blue 5BX stain | 89577003 | C0303874 |
| SRT | C-22856 | pontamine sky blue 6BX stain | 80305003 | C0303875 |
| SRT | C-22870 | potassium hydroxide stain | 406984002 | C1318725 |
| SRT | C-22956 | procion brilliant blue MRS stain | 24900003 | C0303914 |
| SRT | C-2288A | protargol S stain | 406993001 | C0492806 |
| SRT | C-22820 | Prussian blue stain | 255809005 | C0060234 |
| SRT | C-2284F | quinacrine fluorescent stain | 406968003 | C1318715 |
| SRT | C-2286A | rhodamine stain | 406977005 | C0600322 |
| SRT | C-2282A | Romanowsky stain | 255810000 | C0440055 |
| SRT | C-22925 | rose bengal stain | 82411007 | C0035857 |
| SRT | C-22908 | rosolic acid sodium salt stain | 15529003 | C0303898 |
| SRT | C-22964 | saffron stain | 38271009 | C0162753 |
| SRT | F-61DA5 | safranin stain | 406988004 | C0073949 |
| SRT | C-2287A | silver nitrate stain | 406985001 | C1321600 |
| SRT | C-22836 | silver stain | 406951002 | C1318876 |
| SRT | C-22874 | sirius red F3B stain | 51567006 | C0071047 |
| SRT | C-22912 | solochrome azurine (BS) stain | 43549000 | C0303899 |
| SRT | C-22821 | solochrome black 6B stain | 11201005 | C0303864 |
| SRT | C-22909 | solochrome cyanine R stain | 25091000 | C0074807 |
| SRT | C-22825 | solochrome dark blue stain | 38902009 | C0054495 |
| SRT | C-22975 | soluble berlin blue stain | 64991008 | C0303919 |
| SRT | C-22906 | spirit soluble aniline blue stain | 11645004 | C1260876 |
| SRT | C-22920 | spirit soluble eosin stain | 83600004 | C0303903 |
| SRT | C-2282B | spore stain | 255811001 | C0440049 |
| SRT | C-2282D | Sudan stain | 314900004 | C1282434 |
| SRT | C-22827 | sunset yellow FCF stain | 22968009 | C0060120 |
| SRT | C-22844 | tartrazine stain | 21592006 | C0039329 |
| SRT | C-2285F | terminal deoxynucleotidyl transferase stain | 406975002 | C0687124 |
| SRT | C-2288D | thioflavine S stain | 406995008 | C0952039 |
| SRT | C-22926 | thioflavine T stain | 61068006 | C0076466 |
| SRT | C-22850 | thionin stain | 406969006 | C0076494 |
| SRT | C-22943 | thionine stain | 12001002 | C0076494 |
| SRT | C-22845 | titan yellow stain | 84217005 | C0076731 |
| SRT | C-2287D | trichrome stain | 406989007 | C0077066 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | C-22815 | tropaeolin O stain | 35094004 | C0303863 |
| SRT | C-22812 | tropaeolin OO stain | 53511009 | C0077384 |
| SRT | C-22853 | trypan blue stain | 60441008 | C0041213 |
| SRT | C-2283E | Van Gieson stain | 406957003 | C0491963 |
| SRT | C-22880 | verhoeff's hematoxylin stain | 406992006 | C1319311 |
| SRT | C-22858 | vital new red stain | 20230008 | C0303876 |
| SRT | C-22904 | water soluble aniline blue stain | 88625006 | C1321796 |
| SRT | C-22954 | water soluble anthracene brown stain | 58755002 | C0303912 |
| SRT | C-22933 | water soluble nigrosine stain | 12119009 | C0303909 |
| SRT | C-22957 | waxoline blue stain | 60739006 | C0303915 |
| SRT | F-61E5A | wayson stain | 409549005 | C1443889 |
| SRT | F-619B7 | wright stain | 373682001 | C1261259 |
| SRT | C-22888 | xylene cyanol FF stain | 55831004 | C0303889 |
| SRT | C-2282C | Ziehl-Neelsen stain | 255813003 | C0440051 |
| SRT | C-22A08 | acridine orange stain | 29252006 | C0001185 |
| SRT | C-22A07 | acriflavine stain | 17693003 | C0001187 |
| SRT | C-22A03 | atebrin FS stain | 84656005 | C0303922 |
| SRT | C-22A02 | auramine G stain | 73251007 | C0303921 |
| SRT | C-22A01 | auramine O stain | 81397005 | C0878260 |
| SRT | C-22A11 | coriphosphine stain | 49687009 | C0056341 |
| SRT | C-22A05 | fluorescein stain | 85596006 | C0060520 |
| SRT | C-22AA1 | fluorexon stain | 108880002 | C0060549 |
| SRT | C-22A04 | rhodamine B stain | 27671009 | C0073194 |
| SRT | C-22A06 | Fluorescein sodium stain | 25351006 | C0147866 |
| SRT | C-22864 | Sudan black B stain | 36572009 | C0075489 |
| SRT | C-2282E | Sudan black stain | 310805002 | C0588374 |
| SRT | C-22958 | Sudan blue stain | 10740006 | C0075490 |
| SRT | C-22807 | Sudan II stain | 12030009 | C0075492 |
| SRT | C-22861 | Sudan III stain | 39777001 | C0075491 |
| SRT | C-22862 | Sudan IV stain | 69133007 | C0074127 |
| SRT | C-22903 | alkali blue 5B (4B) stain | 76925007 | C0303894 |
| SRT | C-22905 | alkali blue 6B stain | 63929007 | C0303895 |
| SRT | C-22911 | chrome azurol S stain | 34128002 | C0055614 |
| SRT | C-22918 | dibromofluorescein stain | 17172002 | C0303901 |
| SRT | C-22897 | ethyl violet stain | 65445001 | C0059784 |
| SRT | C-22896 | methyl green stain | 22021002 | C0025701 |
| SRT | C-22892 | methyl violet 2B stain | 15896008 | C0303890 |
| SRT | C-22894 | methyl violet 6B stain | 14544006 | C0303891 |
| SRT | C-22916 | pyronine B stain | 76001002 | C0072769 |
| SRT | C-22915 | pyronine G stain | 43106008 | C0034316 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | C-22951 | toluidine blue stain | 29522004 | C0040380 |
| SRT | C-22895 | victoria blue 4R stain | 82682000 | C0078233 |
| SRT | C-22913 | victoria blue B stain | 22749001 | C0078234 |
| SRT | C-22919 | water soluble eosin stain | 36879007 | C0303902 |

CID 8113 Specimen Preparation Steps

Type: Extensible
Version: 20080626

Table CID 8113. Specimen Preparation Steps

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | P3-40005 | Specimen microwave heating | 433455005 | C2317595 |
| SRT | P3-40009 | Specimen steam heating | 433457002 | C2316565 |
| SRT | P3-40006 | Protease digestion of tissue specimen | 433456006 | C2316566 |
| SRT | P3-4000B | Specimen dehydration | 433470006 | C2317330 |
| SRT | P3-05050 | Specimen freezing | 27872000 | C0200367 |
| SRT | P3-40003 | Specimen clearing | 433452008 | C2316366 |

CID 8114 Specimen Fixatives

Type: Extensible
Version: 20080626

Table CID 8114. Specimen Fixatives

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | C-2141C | Neutral Buffered Formalin | 434162003 | C0492002 |
| SRT | F-62235 | Bouin's fluid | 433474002 | C0053963 |
| SRT | C-2141B | Formalin aqueous solution of formaldehyde | 431510009 | C0949307 |
| SRT | F-62231 | Carnoy's fluid | 433338005 | C2317379 |
| SRT | F-62238 | Formol sublimate | 434295000 | C0621539 |
| SRT | F-62233 | Helly's fluid | 433471005 | C2317380 |
| SRT | F-6220F | Michel's medium | 430028007 | C1550080 |
| SRT | F-62234 | Zenker's fluid | 433473008 | C2317478 |
| SRT | C-21403 | Paraformaldehyde | 52836003 | C0070066 |
| SRT | C-21624 | Acetic acid | 2869004 | C0000983 |
| SRT | C-20830 | Chloroform | 259153006 | C0008238 |
| SRT | C-12916 | Chromium trioxide | 430821002 | C0055630 |
| SRT | C-21047 | Ethanol | 419442005 | C0001962 |
| SRT | C-21402 | Formaldehyde | 111095003 | C0016564 |
| SRT | C-13321 | Mercuric chloride | 11496005 | C0025417 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | C-2102B | Methanol | 259221006 | C0001963 |
| SRT | C-15211 | Osmium tetroxide | 13931001 | C0029385 |
| SRT | C-21919 | Picric acid | 24215009 | C0071044 |
| SRT | C-13518 | Potassium dichromate | 19893005 | C0032829 |

CID 8115 Specimen Embedding Media

Type: Extensible
Version: 20080626

Table CID 8115. Specimen Embedding Media

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | F-616D8 | Paraffin wax | 311731000 | C0030415 |
| SRT | F-62232 | Tissue freezing medium | 433469005 | C2315537 |
| SRT | C-2A000 | Plastic | 61088005 | C0032167 |
| SRT | C-84085 | Agar | 10249006 | C0001771 |
| SRT | C-2A400 | Epoxy resin | 65345002 | C0014631 |
| SRT | C-100EA | Acrylic resin | 261712009 | C0444831 |

CID 8120 WSI Referenced Image Purposes of Reference

Type: Extensible
Version: 20100824

Table CID 8120. WSI Referenced Image Purposes of Reference

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 121311 | Localizer |
| DCM | 121350 | Same acquisition at lower resolution |
| DCM | 121351 | Same acquisition at higher resolution |
| DCM | 121352 | Same acquisition at different focal depth |
| DCM | 121353 | Same acquisition at different spectral band |
| DCM | 121354 | Imaged container label |

CID 8121 Microscopy Lens Type

Type: Extensible
Version: 20100824

Table CID 8121. Microscopy Lens Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | A-0011A | High power non-immersion lens | 445621001 | C2919938 |
| SRT | A-0011B | Oil immersion lens | 445622008 | C2919939 |
| SRT | A-00118 | Slide overview lens | 445601002 | C2919940 |

CID 8122 Microscopy Illuminator and Sensor Color

Type: Extensible
Version: 20100824

Table CID 8122. Microscopy Illuminator and Sensor Color

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------|----------------------|------------------------|
| SRT | R-102C0 | Full Spectrum | 414298005 | C1532530 |
| SRT | R-102BE | Infrared | 414497003 | C1532326 |
| SRT | G-A11A | Red | 371240000 | C1260956 |
| SRT | G-A11E | Green | 371246006 | C0332583 |
| SRT | G-A12F | Blue | 405738005 | C1260957 |
| SRT | R-102BF | Ultraviolet | 415770004 | C1532472 |

CID 8123 Microscopy Illumination Method

Type: Extensible
Version: 20100824

Table CID 8123. Microscopy Illumination Method

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 111741 | Transmission illumination |
| DCM | 111742 | Reflection illumination |
| DCM | 111743 | Epifluorescence illumination |
| DCM | 111744 | Brightfield illumination |
| DCM | 111745 | Darkfield illumination |
| DCM | 111746 | Oblique illumination |
| DCM | 111747 | Phase contrast illumination |
| DCM | 111748 | Differential interference contrast |
| DCM | 111749 | Total internal reflection fluorescence |

CID 8124 Microscopy Filter

Type: Extensible
Version: 20100824

Table CID 8124. Microscopy Filter

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | A-010E2 | Green optical filter | 445465004 | C2919396 |
| SRT | A-010DF | Red optical filter | 445279009 | C2919397 |
| SRT | A-010DA | Blue optical filter | 445084008 | C2919751 |
| SRT | A-010DC | Infrared optical filter | 445169002 | C2919637 |
| SRT | A-010E1 | Polarizing optical filter | 445391002 | C2919554 |
| SRT | A-010DE | Violet optical filter | 445278001 | C2919567 |
| SRT | A-010DD | Ultraviolet optical filter | 445254006 | C2919555 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | A-0010F | Dichroic beamsplitter | 445316008 | C2919671 |
| SRT | A-00121 | Hoffman modulator | 445635004 | C2919672 |
| SRT | A-0011D | Darkfield stop | 445624009 | C2919815 |
| SRT | A-0011C | Rheinberg filter | 445623003 | C2919816 |
| SRT | A-0011E | Phase contrast plate | 445625005 | C2919530 |
| SRT | A-00120 | Condenser annulus | 445634000 | C2919531 |
| SRT | A-0011F | Nomarski prism | 445633006 | C2919532 |
| SRT | A-00123 | de Sénarmont compensator | 445663002 | C2919789 |
| DCM | 111609 | No filter | | |

CID 8125 Microscopy Illuminator Type

Type: Extensible
Version: 20100824

Table CID 8125. Microscopy Illuminator Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | A-00125 | Tungsten halogen lamp | 445679001 | C2919726 |
| SRT | A-00127 | Mercury arc lamp | 445685008 | C2919809 |
| SRT | A-00124 | Xenon arc lamp | 445671003 | C2919810 |
| SRT | A-00126 | Light emitting diode | 445683001 | C2919811 |
| SRT | A-23000 | Laser | 122456005 | C0023089 |

CID 8130 Staining Protocols

This Context Group is intended for use in the Scheduled Protocol Code Sequence (0040,0008) and the Performed Protocol Code Sequence (0040,0260) attributes for an automated slide stainer. When so used, an Item with value (P3-00003, SRT, "Staining") will also include a Protocol Context Sequence(0040,0440) using TID 8003 "Specimen Staining" to identify the specific stain substance.

Type: Extensible
Version: 20111028

Table CID 8130. Staining Protocols

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | P3-00003 | Staining | 127790008 | C0487602 |
| SRT | P3-50495 | Hematoxylin and eosin stain method | 104210008 | C0523207 |

CID 8131 Pathology Imaging Protocols

This Context Group is intended for use in the Scheduled Protocol Code Sequence (0040,0008) and the Performed Protocol Code Sequence (0040,0260).When so used, an Item with value (112703, DCM, "Whole Slide Imaging") may also include a Protocol Context Sequence (0040,0440) using TID 8010 "Slide Imaging Parameters".

Type: Extensible
Version: 20120605

Table CID 8131. Pathology Imaging Protocols

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------------|
| DCM | 112700 | Peri-operative Photographic Imaging |
| DCM | 112701 | Gross Specimen Imaging |
| DCM | 112702 | Slide Microscopy |
| DCM | 112703 | Whole Slide Imaging |
| DCM | 112704 | WSI 20X RGB |
| DCM | 112705 | WSI 40X RGB |

CID 8132 Magnification Selection

Type: Extensible
Version: 20120605

Table CID 8132. Magnification Selection

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 112715 | 5X |
| DCM | 112716 | 10X |
| DCM | 112717 | 20X |
| DCM | 112718 | 40X |

CID 8133 Tissue Selection

Type: Extensible
Version: 20120605

Table CID 8133. Tissue Selection

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------------------------|
| DCM | 112719 | Nominal empty tile suppression |
| DCM | 112720 | High threshold empty tile suppression |
| DCM | 112721 | No empty tile suppression |

CID 8201 Surface Scan Acquisition Types

Type: Extensible
Version: 20121129

Table CID 8201. Surface Scan Acquisition Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------|
| DCM | 114201 | Time of flight |
| DCM | 114202 | Interferometry |
| DCM | 114203 | Laser scanning |
| DCM | 114204 | Pattern projection |
| DCM | 114205 | Shape from shading |
| DCM | 114206 | Shape from motion |
| DCM | 114207 | Confocal imaging |
| DCM | 114208 | Point Cloud Algorithmic |

CID 8202 Surface Scan Mode Types

Type: Extensible
Version: 20121129

Table CID 8202. Surface Scan Mode Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------|
| DCM | 114209 | Turntable Scan Method |
| DCM | 114210 | High resolution |
| DCM | 114211 | Fast mode |
| DCM | 114216 | Checkerboard |

CID 8203 Surface Scan Registration Method Types

Type: Extensible
Version: 20121129

Table CID 8203. Surface Scan Registration Method Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------|
| DCM | 114213 | Iterative Closest Point |
| DCM | 125022 | Fiducial Alignment |
| DCM | 114215 | Freehand |

CID 8300 Visual Evaluation Methods

Type: Extensible
Version: 20140331

Table CID 8300. Visual Evaluation Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------------|
| DCM | 109701 | Overall image quality evaluation |
| DCM | 109702 | Grayscale resolution evaluation |
| DCM | 109703 | Luminance response evaluation |
| DCM | 109704 | Luminance uniformity evaluation |
| DCM | 109705 | Chromaticity evaluation |
| DCM | 109706 | Pixel faults evaluation |
| DCM | 109707 | Veiling glare evaluation |
| DCM | 109708 | Geometrical image evaluation |
| DCM | 109709 | Angular viewing evaluation |
| DCM | 109710 | Clinical evaluation |

CID 8301 Test Pattern Codes

Test patterns for display calibration jobs.

Type: Extensible
Version: 20140331

Table CID 8301. Test Pattern Codes

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|------------------------------|
| DCM | 109801 | TG18-QC Pattern | |
| DCM | 109802 | TG18-BR Pattern | |
| DCM | 109803 | TG18-PQC Pattern | |
| DCM | 109804 | TG18-CT Pattern | |
| DCM | 109805 | TG18-LN8-01 Pattern | |
| DCM | 109806 | TG18-LN8-02 Pattern | |
| DCM | 109807 | TG18-LN8-03 Pattern | |
| DCM | 109808 | TG18-LN8-04 Pattern | |
| DCM | 109809 | TG18-LN8-05 Pattern | |
| DCM | 109810 | TG18-LN8-06 Pattern | |
| DCM | 109811 | TG18-LN8-07 Pattern | |
| DCM | 109812 | TG18-LN8-08 Pattern | |
| DCM | 109813 | TG18-LN8-09 Pattern | |
| DCM | 109814 | TG18-LN8-10 Pattern | |
| DCM | 109815 | TG18-LN8-11 Pattern | |
| DCM | 109816 | TG18-LN8-12 Pattern | |
| DCM | 109817 | TG18-LN8-13 Pattern | |
| DCM | 109818 | TG18-LN8-14 Pattern | |
| DCM | 109819 | TG18-LN8-15 Pattern | |
| DCM | 109820 | TG18-LN8-16 Pattern | |
| DCM | 109821 | TG18-LN8-17 Pattern | |
| DCM | 109822 | TG18-LN8-18 Pattern | |
| DCM | 109823 | TG18-LN12-01 Pattern | |
| DCM | 109824 | TG18-LN12-02 Pattern | |
| DCM | 109825 | TG18-LN12-03 Pattern | |
| DCM | 109826 | TG18-LN12-04 Pattern | |
| DCM | 109827 | TG18-LN12-05 Pattern | |
| DCM | 109828 | TG18-LN12-06 Pattern | |
| DCM | 109829 | TG18-LN12-07 Pattern | |
| DCM | 109830 | TG18-LN12-08 Pattern | |
| DCM | 109831 | TG18-LN12-09 Pattern | |
| DCM | 109832 | TG18-LN12-10 Pattern | |
| DCM | 109833 | TG18-LN12-11 Pattern | |
| DCM | 109834 | TG18-LN12-12 Pattern | |
| DCM | 109835 | TG18-LN12-13 Pattern | |
| DCM | 109836 | TG18-LN12-14 Pattern | |
| DCM | 109837 | TG18-LN12-15 Pattern | |
| DCM | 109838 | TG18-LN12-16 Pattern | |
| DCM | 109839 | TG18-LN12-17 Pattern | |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|---------------------------------|-------------------|----------------------|---------------------------------------|
| DCM | 109840 | TG18-LN12-18 Pattern | |
| DCM | 109841 | TG18-UN10 Pattern | |
| DCM | 109842 | TG18-UN80 Pattern | |
| DCM | 109843 | TG18-UNL10 Pattern | |
| DCM | 109844 | TG18-UNL80 Pattern | |
| DCM | 109845 | TG18-AD Pattern | |
| DCM | 109846 | TG18-MP Pattern | |
| DCM | 109847 | TG18-RH10 Pattern | |
| DCM | 109848 | TG18-RH50 Pattern | |
| DCM | 109849 | TG18-RH89 Pattern | |
| DCM | 109850 | TG18-RV10 Pattern | |
| DCM | 109851 | TG18-RV50 Pattern | |
| DCM | 109852 | TG18-RV89 Pattern | |
| DCM | 109853 | TG18-PX Pattern | |
| DCM | 109854 | TG18-CX Pattern | |
| DCM | 109855 | TG18-LPH10 Pattern | |
| DCM | 109856 | TG18-LPH50 Pattern | |
| DCM | 109857 | TG18-LPH89 Pattern | |
| DCM | 109858 | TG18-LPV10 Pattern | |
| DCM | 109859 | TG18-LPV50 Pattern | |
| DCM | 109860 | TG18-LPV89 Pattern | |
| DCM | 109861 | TG18-AFC Pattern | |
| DCM | 109862 | TG18-NS10 Pattern | |
| DCM | 109863 | TG18-NS50 Pattern | |
| DCM | 109864 | TG18-NS89 Pattern | |
| DCM | 109865 | TG18-GV Pattern | |
| DCM | 109866 | TG18-GVN Pattern | |
| DCM | 109867 | TG18-GQ Pattern | |
| DCM | 109868 | TG18-GQN Pattern | |
| DCM | 109869 | TG18-GQB Pattern | |
| DCM | 109870 | TG18-GA03 Pattern | |
| DCM | 109871 | TG18-GA05 Pattern | |
| DCM | 109872 | TG18-GA08 Pattern | |
| DCM | 109873 | TG18-GA10 Pattern | |
| DCM | 109874 | TG18-GA15 Pattern | |
| DCM | 109875 | TG18-GA20 Pattern | |
| DCM | 109876 | TG18-GA25 Pattern | |
| DCM | 109877 | TG18-GA30 Pattern | |
| DCM | 109878 | TG18-CH Image | |
| DCM | 109879 | TG18-KN Image | |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|------------------------------|
| DCM | 109880 | TG18-MM1 Image | |
| DCM | 109881 | TG18-MM2 Image | |
| DCM | 109901 | OIQ Pattern | |
| DCM | 109902 | ANG Pattern | |
| DCM | 109903 | GD Pattern | |
| DCM | 109904 | BN01 Pattern | |
| DCM | 109905 | BN02 Pattern | |
| DCM | 109906 | BN03 Pattern | |
| DCM | 109907 | BN04 Pattern | |
| DCM | 109908 | BN05 Pattern | |
| DCM | 109909 | BN06 Pattern | |
| DCM | 109910 | BN07 Pattern | |
| DCM | 109911 | BN08 Pattern | |
| DCM | 109912 | BN09 Pattern | |
| DCM | 109913 | BN10 Pattern | |
| DCM | 109914 | BN11 Pattern | |
| DCM | 109915 | BN12 Pattern | |
| DCM | 109916 | BN13 Pattern | |
| DCM | 109917 | BN14 Pattern | |
| DCM | 109918 | BN15 Pattern | |
| DCM | 109919 | BN16 Pattern | |
| DCM | 109920 | BN17 Pattern | |
| DCM | 109921 | BN18 Pattern | |
| DCM | 109931 | DIN Geometry Pattern | |
| DCM | 109932 | DIN Grayscale Pattern | |
| DCM | 109933 | DIN Resolution Pattern | |
| DCM | 109941 | White Pattern | |
| DCM | 109943 | SMPTE Pattern | |

CID 8302 Measurement Pattern Codes

Test pattern images that define measurement points for display calibration jobs.

Type: Extensible
Version: 20140331

Table CID 8302. Measurement Pattern Codes

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------|
| DCM | 109843 | TG18-UNL10 Pattern |
| DCM | 109844 | TG18-UNL80 Pattern |

CID 8303 Display Device Type

The type of image display device.

Type: **Non-Extensible**
Version: **2014033120170417**

Table CID 8303. Display Device Type

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|-------------------|------------------------------------|
| DCM | 109991 | CRT Display |
| DCM | 109992 | Liquid Crystal Display |
| DCM | 109993 | Plasma Display |
| DCM | 109994 | OLED |
| DCM | 109995 | DLP Rear Projection System |
| DCM | 109996 | DLP Front Projection System |
| DCM | 109997 | CRT Rear Projection System |
| DCM | 109998 | CRT Front Projection System |
| DCM | 109999 | Other Projection System |

CID 9000 Physical Quantity Descriptors

Type: **Extensible**
Version: **20141110**

Table CID 9000. Physical Quantity Descriptors

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------|----------------------|------------------------|
| SRT | G-C1C6 | Quantity | 246205007 | C1265611 |
| DCM | 121401 | Derivation | | |
| SRT | G-C036 | Measurement Method | 370129005 | C1299991 |

Note

The concept (G-C1C6, SRT, "Quantity"), lacking a formal definition in SNOMED, is assumed in this usage to be synonymous with the concept defined for "quantity" in Joint Committee for Guides in Metrology (JCGM), *International Vocabulary of Metrology, Basic and General Concepts and Associated Terms* (http://www.bipm.org/utis/common/documents/jcgm/JCGM_200_2012.pdf); the definition is "property of a phenomenon, body, or substance, where the property has a magnitude that can be expressed as a number and a reference". That document further distinguishes a "physical quantity", "chemical quantity", and "biological quantity", though no such distinction is implied here, and "quantity" is assumed to be all inclusive.

CID 9231 Workitem Definition

Type: **Extensible**
Version: **20160601**

Table CID 9231. Workitem Definition

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | 110001 | Image Processing |
| DCM | 110002 | Quality Control |
| DCM | 110003 | Computer Aided Diagnosis |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | 110004 | Computer Aided Detection |
| DCM | 110005 | Interpretation |
| DCM | 110006 | Transcription |
| DCM | 110007 | Report Verification |
| DCM | 128001 | Add Addendum to Report |
| DCM | 110008 | Print |
| DCM | 110009 | No subsequent Workitems |
| DCM | 110013 | Media Import |

CID 9232 Non-DICOM Output Types (Retired)

See PS3.16-2011.

CID 9233 Requested Report Types

This content group describes types of reports that may be requested as the output of a diagnostic imaging reporting task.

Type: Extensible
Version: 20160601

Table CID 9233. Requested Report Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------|
| DCM | 121362 | Preliminary Report |
| DCM | 128005 | Final Report |

CID 9241 Radiotherapy General Workitem Definition

Type: Extensible
Version: 20151110

Table CID 9241. Radiotherapy General Workitem Definition

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 121701 | RT Patient Setup |
| DCM | 121722 | RT Patient Position Adjustment |
| DCM | 121723 | RT Patient Position In-treatment-session Review |
| DCM | 121724 | RT Treatment Simulation with Internal Verification |
| DCM | 121725 | RT Treatment Simulation with External Verification |
| DCM | 121726 | RT Treatment with Internal Verification |
| DCM | 121727 | RT Treatment with External Verification |
| DCM | 121728 | RT Treatment QA with Internal Verification |
| DCM | 121729 | RT Treatment QA with External Verification |
| DCM | 121730 | RT Machine QA |
| DCM | 121731 | RT Treatment QA by RT Plan Dose Check |
| DCM | 121732 | RT Treatment QA by RT Plan Difference Check |
| DCM | 121733 | RT Treatment QA by RT Ion Plan Dose Check |
| DCM | 121734 | RT Treatment QA by RT Ion Plan Difference Check |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------|
| DCM | 121735 | RT Brachy Treatment |

CID 9242 Radiotherapy Acquisition Workitem Definition

Type: Extensible
Version: 20110406

Table CID 9242. Radiotherapy Acquisition Workitem Definition

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 121702 | RT Patient Position Acquisition, single plane MV |
| DCM | 121703 | RT Patient Position Acquisition, dual plane MV |
| DCM | 121704 | RT Patient Position Acquisition, single plane kV |
| DCM | 121705 | RT Patient Position Acquisition, dual plane kV |
| DCM | 121706 | RT Patient Position Acquisition, dual plane kV/MV |
| DCM | 121707 | RT Patient Position Acquisition, CT kV |
| DCM | 121708 | RT Patient Position Acquisition, CT MV |
| DCM | 121709 | RT Patient Position Acquisition, Optical |
| DCM | 121710 | RT Patient Position Acquisition, Ultrasound |
| DCM | 121711 | RT Patient Position Acquisition, Spatial Fiducials |

CID 9243 Radiotherapy Registration Workitem Definition

Type: Extensible
Version: 20110406

Table CID 9243. Radiotherapy Registration Workitem Definition

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 121712 | RT Patient Position Registration, single plane |
| DCM | 121713 | RT Patient Position Registration, dual plane |
| DCM | 121714 | RT Patient Position Registration, 3D CT general |
| DCM | 121715 | RT Patient Position Registration, 3D CT marker-based |
| DCM | 121716 | RT Patient Position Registration, 3D CT volume-based |
| DCM | 121717 | RT Patient Position Registration, 3D on 2D reference |
| DCM | 121718 | RT Patient Position Registration, 2D on 3D reference |
| DCM | 121719 | RT Patient Position Registration, Optical |
| DCM | 121720 | RT Patient Position Registration, Ultrasound |
| DCM | 121721 | RT Patient Position Registration, Spatial Fiducials |

CID 9250 Scheduled Processing Parameter Concept Codes for RT Treatment

Type: Extensible
Version: ~~20140402~~20170413

Table CID 9250. Scheduled Processing Parameter Concept Codes for RT Treatment

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|--------------------------|-------------------------|
| DCM | 121742 121740 | Treatment Delivery Type |

CID 9300 Procedure Discontinuation Reasons

Type: Extensible
Version: 20160314

Table CID 9300. Procedure Discontinuation Reasons

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--|
| DCM | 110526 | Resource pre-empted |
| DCM | 110527 | Resource inadequate |
| DCM | 110528 | Discontinued Procedure Step rescheduled |
| DCM | 110529 | Discontinued Procedure Step rescheduling recommended |
| DCM | 110530 | Workitem assignment rejected by assigned resource |
| <i>Include CID 9301 "Modality PPS Discontinuation Reasons"</i> | | |
| <i>Include CID 9302 "Media Import PPS Discontinuation Reasons"</i> | | |

CID 9301 Modality PPS Discontinuation Reasons

Type: Extensible
Version: 20140419

Table CID 9301. Modality PPS Discontinuation Reasons

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| DCM | 110500 | Doctor canceled procedure | | |
| DCM | 110501 | Equipment failure | | |
| DCM | 110502 | Incorrect procedure ordered | | |
| DCM | 110503 | Patient allergic to media/contrast | | |
| DCM | 110504 | Patient died | | |
| DCM | 110505 | Patient refused to continue procedure | | |
| DCM | 110506 | Patient taken for treatment or surgery | | |
| DCM | 110507 | Patient did not arrive | | |
| DCM | 110508 | Patient pregnant | | |
| DCM | 110509 | Change of procedure for correct charging | | |
| DCM | 110510 | Duplicate order | | |
| DCM | 110511 | Nursing unit cancel | | |
| DCM | 110512 | Incorrect side ordered | | |
| DCM | 110513 | Discontinued for unspecified reason | | |
| DCM | 110514 | Incorrect worklist entry selected | | |
| DCM | 110515 | Patient condition prevented continuing | | |
| DCM | 110516 | Equipment change | | |
| SRT | D0-B0330 | Injection Site Extravasation | 95384003 | C0521500 |
| SRT | DF-10780 | Radiopharmaceutical Adverse Reaction | 292094009 | C0569412 |

CID 9302 Media Import PPS Discontinuation Reasons

Type: Extensible
Version: 20090616

Table CID 9302. Media Import PPS Discontinuation Reasons

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------------|
| DCM | 110521 | Objects incorrectly formatted |
| DCM | 110522 | Object Types not supported |
| DCM | 110523 | Object Set incomplete |
| DCM | 110524 | Media Failure |
| DCM | 110501 | Equipment failure |
| DCM | 110510 | Duplicate order |
| DCM | 110513 | Discontinued for unspecified reason |
| DCM | 110514 | Incorrect worklist entry selected |

CID 9401 IEC61217 Device Position Parameters

Type: Extensible
Version: 20130518

Table CID 9401. IEC61217 Device Position Parameters

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 9402 "IEC61217 Gantry Position Parameters"</i> | | |
| <i>Include CID 9403 "IEC61217 Patient Support Position Parameters"</i> | | |

CID 9402 IEC61217 Gantry Position Parameters

Type: Extensible
Version: 20130518

Table CID 9402. IEC61217 Gantry Position Parameters

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 126809 | IEC61217 Gantry Continuous Roll Angle |
| DCM | 126810 | IEC61217 Gantry Continuous Pitch Angle |
| DCM | 126811 | IEC61217 Gantry Continuous Yaw Angle |

CID 9403 IEC61217 Patient Support Position Parameters

Type: Extensible
Version: 20130518

Table CID 9403. IEC61217 Patient Support Position Parameters

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 126801 | IEC61217 Patient Support Continuous Angle |
| DCM | 126802 | IEC61217 Table Top Continuous Pitch Angle |
| DCM | 126803 | IEC61217 Table Top Continuous Roll Angle |
| DCM | 126804 | IEC61217 Table Top Eccentric Axis Distance |
| DCM | 126805 | IEC61217 Table Top Continuous Eccentric Angle |
| DCM | 126806 | IEC61217 Table Top Lateral Position |
| DCM | 126807 | IEC61217 Table Top Longitudinal Position |
| DCM | 126808 | IEC61217 Table Top Vertical Position |

CID 10000 Scope of Accumulation

Type: Extensible
Version: 20131010

Table CID 10000. Scope of Accumulation

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------|
| DCM | 113014 | Study |
| DCM | 113015 | Series |
| DCM | 113016 | Performed Procedure Step |
| DCM | 113970 | Procedure Step To This Point |
| DCM | 113852 | Irradiation Event |

CID 10001 UID Types

Type: Extensible
Version: 20081028

Table CID 10001. UID Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 110180 | Study Instance UID |
| DCM | 112002 | Series Instance UID |
| DCM | 121126 | Performed Procedure Step SOP Instance UID |
| DCM | 113853 | Irradiation Event UID |

CID 10002 Irradiation Event Types

Type: Extensible
Version: 20051101

Table CID 10002. Irradiation Event Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | P5-06000 | Fluoroscopy | 44491008 | C0016356 |
| DCM | 113611 | Stationary Acquisition | | |
| DCM | 113612 | Stepping Acquisition | | |
| DCM | 113613 | Rotational Acquisition | | |

CID 10003 Equipment Plane Identification

Type: Extensible
Version: 20081028

Table CID 10003. Equipment Plane Identification

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 113620 | Plane A |
| DCM | 113621 | Plane B |
| DCM | 113622 | Single Plane |
| DCM | 113890 | All Planes |

CID 10004 Fluoro Modes

Type: Extensible
Version: 20051101

Table CID 10004. Fluoro Modes

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 113630 | Continuous |
| DCM | 113631 | Pulsed |

CID 10006 X-Ray Filter Materials

Type: Extensible
Version: ~~20081028~~20170405

Table CID 10006. X-Ray Filter Materials

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| SRT | C-150F9 | Molybdenum or Molybdenum compound | 105860002 | C0303452 |
| SRT | C-120F9 | Aluminum or Aluminum compound | 105830007 | C0002369 |
| SRT | C-127F9 | Copper or Copper compound | 105837005 | C0303182 |
| SRT | C-167F9 | Rhodium or Rhodium compound | 105877002 | C0303636 |
| SRT | C-1190E | Niobium or Niobium compound | 429310004 | C1998130 |
| SRT | C-1190F | Europium or Europium compound | 429591003 | C1997243 |
| SRT | C-132F9 | Lead or Lead compound | 105842002 | C0439863 |
| SRT | C-156F9 | Tantalum or Tantalum compound | 105866008 | C0303513 |
| SRT | C-137F9 | Silver or Silver compound | 105847008 | C0037126 |
| SRT | C-139F9 | Tin or Tin compound | 105849006 | C0303330 |

CID 10007 X-Ray Filter Types

Type: Extensible
Version: 20131010

Table CID 10007. X-Ray Filter Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------|
| DCM | 113650 | Strip filter |
| DCM | 113651 | Wedge filter |
| DCM | 113652 | Butterfly filter |
| DCM | 113653 | Flat filter |
| DCM | 111609 | No Filter |

CID 10008 Dose Related Distance Measurements

Type: Extensible
Version: 20131010

Table CID 10008. Dose Related Distance Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------------|
| DCM | 113748 | Distance Source to Isocenter |
| DCM | 113737 | Distance Source to Reference Point |
| DCM | 113750 | Distance Source to Detector |
| DCM | 113751 | Table Longitudinal Position |
| DCM | 113752 | Table Lateral Position |
| DCM | 113753 | Table Height Position |
| DCM | 113792 | Distance Source to Table Plane |
| DCM | 113759 | Table Longitudinal End Position |
| DCM | 113760 | Table Lateral End Position |
| DCM | 113761 | Table Height End Position |

CID 10009 Measured/Calculated

Type: Extensible

Version: 20051101

Table CID 10009. Measured/Calculated

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-41D41 | Measured | 258104002 | C0444706 |
| SRT | R-41D2D | Calculated | 258090004 | C0444686 |
| SRT | R-10260 | Estimated | 414135002 | C0750572 |

CID 10010 Dose Measurement Devices

Type: Extensible

Version: 20051101

Table CID 10010. Dose Measurement Devices

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | A-2C090 | Dosimeter | 15869005 | C0180488 |

CID 10011 Effective Dose Evaluation Method

Type: Extensible

Version: 20071031

Table CID 10011. Effective Dose Evaluation Method

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 113800 | DLP to E conversion via MC computation |
| DCM | 113801 | CTDI _{freeair} to E conversion via MC computation |
| DCM | 113802 | DLP to E conversion via measurement |
| DCM | 113803 | CTDI _{freeair} to E conversion via measurement |

CID 10013 CT Acquisition Type

Type: Extensible
Version: 20160314

Table CID 10013. CT Acquisition Type

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| DCM | 113804 | Sequenced Acquisition | | |
| SRT | P5-08001 | Spiral Acquisition | 116152004 | C0860888 |
| DCM | 113805 | Constant Angle Acquisition | | |
| DCM | 113806 | Stationary Acquisition | | |
| DCM | 113807 | Free Acquisition | | |
| SRT | R-FB8F1 | Cone Beam Acquisition | 702569007 | C3839509 |

CID 10014 Contrast Imaging Technique

Type: Extensible
Version: 20071031

Table CID 10014. Contrast Imaging Technique

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | P5-00100 | Diagnostic radiography with contrast media | 27483000 | C0542435 |
| SRT | P5-0808E | CT without contrast | 399331006 | C1275400 |

CID 10015 CT Dose Reference Authorities

Type: Extensible
Version: 20081027

Table CID 10015. CT Dose Reference Authorities

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 113808 | ICRP Pub 60 |
| DCM | 113841 | ICRP Pub 103 |

CID 10016 Anode Target Material

Type: Extensible
Version: 20070827

Table CID 10016. Anode Target Material

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| SRT | C-150F9 | Molybdenum or Molybdenum compound | 105860002 | C0303452 |
| SRT | C-167F9 | Rhodium or Rhodium compound | 105877002 | C0303636 |
| SRT | C-164F9 | Tungsten or Tungsten compound | 105874009 | C0041384 |

CID 10017 X-Ray Grid

Type: Extensible
Version: 20070827

Table CID 10017. X-Ray Grid

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------|
| DCM | 111641 | Fixed grid |
| DCM | 111642 | Focused grid |
| DCM | 111643 | Reciprocating grid |
| DCM | 111644 | Parallel grid |
| DCM | 111645 | Crossed grid |
| DCM | 111646 | No grid |

CID 10020 Source of Projection X-Ray Dose Information

Type: Extensible
Version: 20120406

Table CID 10020. Source of Projection X-Ray Dose Information

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|
| DCM | 113856 | Automated Data Collection | | |
| DCM | 113857 | Manual Entry | | |
| DCM | 113858 | MPPS Content | | |
| SRT | A-2C090 | Dosimeter | 15869005 | C0180488 |
| DCM | 113866 | Copied From Image Attributes | | |
| DCM | 113867 | Computed From Image Attributes | | |
| DCM | 113868 | Derived From Human-Readable Reports | | |
| DCM | 113940 | System Calculated | | |

CID 10021 Source of CT Dose Information

Type: Extensible
Version: 20081028

Table CID 10021. Source of CT Dose Information

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------------|
| DCM | 113856 | Automated Data Collection |
| DCM | 113857 | Manual Entry |
| DCM | 113866 | Copied From Image Attributes |
| DCM | 113867 | Computed From Image Attributes |
| DCM | 113868 | Derived From Human-Readable Reports |

CID 10022 Label Types

Type: Extensible
Version: 20110816

Table CID 10022. Label Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------|
| DCM | 113607 | Series Number |
| DCM | 113608 | Acquisition Number |
| DCM | 113609 | Instance Number |

CID 10023 Size Specific Dose Estimation Method for CT

Type: Extensible
Version: 20160314

Table CID 10023. Size Specific Dose Estimation Method for CT

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 113934 | AAPM 204 Lateral Dimension |
| DCM | 113935 | AAPM 204 AP Dimension |
| DCM | 113936 | AAPM 204 Sum of Lateral and AP Dimension |
| DCM | 113937 | AAPM 204 Effective Diameter Estimated From Patient Age |
| <u>DCM</u> | 113981 | Water Equivalent Diameter Representative Value |
| DCM | 113982 | Water Equivalent Diameter Integrated Across Scan Range |
| DCM | 113983 | Water Equivalent Diameter From Raw Data |
| DCM | 113984 | Water Equivalent Diameter From Localizer |

CID 10024 Water Equivalent Diameter Method

Type: Extensible
Version: 20160314

Table CID 10024. Water Equivalent Diameter Method

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 113987 | AAPM 220 |

CID 10025 Radiation Dose Reference Points

Type: Extensible
Version: ~~20120406~~20170416

Table CID 10025. Radiation Dose Reference Points

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 113860 | 15cm from Isocenter toward Source |
| DCM | 113861 | 30cm in Front of Image Input Surface |
| DCM | 113862 | 1cm above Tabletop |
| DCM | 113863 | 30cm above Tabletop |
| DCM | 113864 | 15cm from Table Centerline |
| DCM | 113865 | Entrance exposure to a 4.2 cm breast thickness |
| DCM | 113941 | In Detector Plane |
| DCM | 113964 | At Surface of Patient |

CID 10030 Detector Types

Type: Extensible
Version: 20120406

Table CID 10030. Detector Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------|
| DCM | 113948 | Direct Detector |
| DCM | 113949 | Indirect Detector |
| DCM | 113950 | Storage Detector |
| DCM | 113951 | Film |

CID 10031 CR/DR Mechanical Configuration

Type: Extensible
Version: 20120406

Table CID 10031. CR/DR Mechanical Configuration

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------|
| DCM | 113953 | Unmounted Detector |
| DCM | 113952 | Table Mount |
| DCM | 113954 | Upright Stand Mount |
| DCM | 113955 | C-Arm Mount |

CID 10032 Projection X-Ray Acquisition Device Types

Type: Extensible
Version: 20120406

Table CID 10032. Projection X-Ray Acquisition Device Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 113957 | Fluoroscopy-Guided Projection Radiography System |
| DCM | 113958 | Integrated Projection Radiography System |
| DCM | 113959 | Cassette-based Projection Radiography System |

CID 10033 CT Reconstruction Algorithm

Type: Extensible
Version: 20130207

Table CID 10033. CT Reconstruction Algorithm

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | 113962 | Filtered Back Projection |
| DCM | 113963 | Iterative Reconstruction |

Note

The values in this Context Group correspond to the Defined Terms for Reconstruction Algorithm (0018,9315) used in the CT Reconstruction Functional Group Macro in PS3.3.

CID 10034 Reason for Repeating Acquisition

Type: Extensible
Version: 20170418

Table CID 10034. Reason for Repeating Acquisition

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------|
| DCM | 128553 | Patient motion |
| DCM | 128554 | Suboptimal contrast timing |

CID 10040 Radiopharmaceutical Organ Dose Reference Authority

Type: Extensible
Version: 20140419

Table CID 10040. Radiopharmaceutical Organ Dose Reference Authority

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------------------|
| DCM | 113520 | MIRD Pamphlet 1 |
| DCM | 113521 | ICRP Publication 53 |
| DCM | 113526 | MIRDOSE |
| DCM | 113527 | OLINDA-EXM |
| DCM | 113528 | Package Insert |
| DCM | 113529 | Institutionally Approved Estimates |
| DCM | 113530 | Investigational New Drug |
| DCM | 113522 | ICRP Publication 80 |
| DCM | 113523 | ICRP Publication 106 |

CID 10041 Source of Radioisotope Activity Information

Type: Extensible
Version: 20140419

Table CID 10041. Source of Radioisotope Activity Information

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------|
| DCM | 113541 | Dose Calibrator |
| DCM | 113542 | Infusion System |
| DCM | 113543 | Radioisotope Generator |

CID 10043 Intravenous Extravasation Symptoms

Type: Extensible
Version: 20140419

Table CID 10043. Intravenous Extravasation Symptoms

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | D0-B0324 | Injection site abscess | 95382004 | C0151464 |
| SRT | D0-B0380 | Injection site anesthesia | 95398006 | C0234944 |
| SRT | D0-B03A4 | Injection site atrophy | 95404001 | C0151512 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | D0-B0394 | Injection site bruising | 95401009 | C0521508 |
| SRT | D0-B0342 | Injection site burning | 95389008 | C0521503 |
| SRT | D0-B0364 | Injection site cyst | 95396005 | C0151584 |
| SRT | D0-B0354 | Injection site dermatitis | 95393002 | C0521505 |
| SRT | D0-B0300 | Injection site disorder | 95376002 | C0521497 |
| SRT | D0-B0352 | Injection site edema | 95392007 | C0151605 |
| SRT | D0-B03A2 | Injection site fibrosis | 95403007 | C0151649 |
| SRT | M-44150 | Injection site granuloma | 24389009 | C0085654 |
| SRT | D0-B0334 | Injection site hemorrhage | 95385002 | C0151698 |
| SRT | D0-B0311 | Injection site hypersensitivity | 95378001 | C0151726 |
| SRT | D0-B03A0 | Injection site induration | 95402002 | C0521509 |
| SRT | D0-B0320 | Injection site infection | 95381006 | C0221714 |
| SRT | D0-B0350 | Injection site inflammation | 95391000 | C0151734 |
| SRT | D0-B0312 | Injection site irritation | 95379009 | C0521498 |
| SRT | D0-B0339 | Injection site malabsorption | 95387005 | C0521502 |
| SRT | D0-B0360 | Injection site mass | 95395009 | C0151775 |
| SRT | D0-B0370 | Injection site necrosis | 95397001 | C0151795 |
| SRT | D0-B0346 | Injection site nerve damage | 95390004 | C0521504 |
| SRT | D0-B0340 | Injection site pain | 95388000 | C0151828 |
| SRT | D0-B0382 | Injection site paresthesia | 95399003 | C0521506 |
| SRT | D0-B0314 | Injection site pigmentation change | 95380007 | C0521499 |
| SRT | D0-B0310 | Injection site reaction | 95377006 | C0151735 |
| SRT | M-78066 | Injection site scar | 111017005 | C1142162 |
| SRT | D0-B0326 | Injection site sterile abscess | 95383009 | C0234938 |
| SRT | D0-B0338 | Injection site thrombosis | 95386001 | C0521501 |
| SRT | D0-B0390 | Injection site ulcer | 95400005 | C0521507 |
| SRT | D0-B0356 | Injection site urticaria | 95394008 | C0392196 |
| DCM | 113568 | Extravasation visible in image | | |

CID 10044 Radiosensitive Organs

Type: Extensible
Version: 20140419

Table CID 10044. Radiosensitive Organs

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------|----------------------|------------------------|
| SRT | T-B3000 | Adrenal gland | 23451007 | C0001625 |
| SRT | T-74000 | Bladder | 89837001 | C0005682 |
| SRT | T-A0100 | Brain | 12738006 | C0006104 |
| SRT | T-04000 | Breast | 76752008 | C0006141 |
| SRT | T-C1000 | Bone Marrow | 14016003 | C0005953 |
| SRT | T-D0859 | Bone Surface | 425647002 | C1960754 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | T-59300 | Colon | 71854001 | C0009368 |
| SRT | T-56000 | Esophagus | 32849002 | C0014876 |
| SRT | T-AA700 | Eye lenses | 78076003 | C0023317 |
| SRT | T-63000 | Gallbladder | 28231008 | C0016976 |
| SRT | T-32000 | Heart | 80891009 | C0018787 |
| SRT | T-71000 | Kidney | 64033007 | C0022646 |
| SRT | T-62002 | Liver | 181268008 | C1278929 |
| SRT | T-28000 | Lung | 39607008 | C0024109 |
| SRT | T-C4000 | Lymph node | 59441001 | C0024204 |
| SRT | T-13001 | Muscle | 71616004 | C0026845 |
| SRT | T-51300 | Oral mucosa | 113277000 | C0026639 |
| SRT | T-87000 | Ovary | 15497006 | C0029939 |
| SRT | T-65000 | Pancreas | 15776009 | C0030274 |
| SRT | T-9200B | Prostate | 181422007 | C1278980 |
| SRT | T-61007 | Salivary Glands | 385294005 | C0036098 |
| SRT | T-00009 | Skin | 181469002 | C1278993 |
| SRT | T-58000 | Small intestine | 30315005 | C0021852 |
| SRT | T-C3000 | Spleen | 78961009 | C0037993 |
| SRT | T-57000 | Stomach | 69695003 | C0038351 |
| SRT | T-94000 | Testis | 40689003 | C0039597 |
| SRT | T-C8000 | Thymus | 9875009 | C0040113 |
| SRT | T-B6000 | Thyroid | 69748006 | C0040132 |
| SRT | T-83000 | Uterus | 35039007 | C0042149 |

CID 10045 Radiopharmaceutical Patient State

Type: Extensible
Version: 20140419

Table CID 10045. Radiopharmaceutical Patient State

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---------------------------------------|------------|---------------------------------|----------------------|------------------------|
| <i>Include CID 3102 "Rest-Stress"</i> | | | | |
| SRT | F-70102 | Abnormal Renal Function | 39539005 | C0151746 |
| DCM | 113560 | Acute unilateral renal blockage | | |
| DCM | 113561 | Low Thyroid Uptake | | |
| DCM | 113562 | High Thyroid Uptake | | |
| DCM | 113563 | Severely Jaundiced | | |

CID 10046 GFR Measurements

Type: Extensible
Version: 20140419

Table CID 10046. GFR Measurements

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--|------------------------|
| LN | 33914-3 | Glomerular Filtration Rate (MDRD) | C1316377 |
| LN | 48642-3 | Glomerular Filtration Rate non-black (MDRD) | C1954228 |
| LN | 48643-1 | Glomerular Filtration Rate black (MDRD) | C1954230 |
| LN | 50044-7 | Glomerular Filtration Rate female (MDRD) | C1976998 |
| LN | 50210-4 | Glomerular Filtration Rate Cystatin-based formula | C1978041 |
| LN | 50384-7 | Glomerular Filtration Rate Creatinine-based formula (Schwartz) | C1978244 |
| LN | 35591-7 | Cockcroft-Gault Formula estimation of GFR | C1507751 |
| LN | 62238-1 | CKD-EPI Formula estimation of GFR | C2973160 |

CID 10047 GFR Measurement Methods

Type: Extensible
Version: 20140419

Table CID 10047. GFR Measurement Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 113570 | Cockcroft-Gault Formula estimation of GFR |
| DCM | 113571 | CKD-EPI Formula estimation of GFR |
| DCM | 113572 | Glomerular Filtration Rate (MDRD) |
| DCM | 113573 | Glomerular Filtration Rate non-black (MDRD) |
| DCM | 113574 | Glomerular Filtration Rate black (MDRD) |
| DCM | 113575 | Glomerular Filtration Rate female (MDRD) |
| DCM | 113576 | Glomerular Filtration Rate Cystatin-based formula |
| DCM | 113577 | Glomerular Filtration Rate Creatinine-based formula (Schwartz) |

CID 10050 Summary Radiation Exposure Quantities

Type: Extensible
Version: 20150324

Table CID 10050. Summary Radiation Exposure Quantities

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 111636 | Entrance Exposure at RP |
| DCM | 111637 | Accumulated Average Glandular Dose (mammo) |
| DCM | 113722 | Dose Area Product Total |
| DCM | 113726 | Fluoro Dose Area Product Total |
| DCM | 113727 | Acquisition Dose Area Product Total |
| DCM | 113730 | Total Fluoro Time |
| DCM | 113731 | Total Number of Radiographic Frames |
| DCM | 113507 | Administered activity |
| DCM | 113813 | CT Dose Length Product Total |
| DCM | 113830 | Mean CT DIvol |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------|
| DCM | 113839 | Effective Dose |

Instruction to Editor: No change to the following Context Groups

CID 10060 Organs for Radiation Dose Estimates

Type: Extensible
Version: 20170405

Table CID 10060. Organs for Radiation Dose Estimates

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------|----------------------|------------------------|
| Include CID 10044 "Radiosensitive Organs" | | | | |
| SRT | T-D0010 | Entire body | 38266002 | C0229960 |
| DCM | 113681 | Phantom | | |

CID 10061 Absorbed Radiation Dose Types

Type: Extensible
Version: 20170405

Table CID 10061. Absorbed Radiation Dose Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------------------|
| DCM | 128531 | Maximum Absorbed Radiation Dose |
| DCM | 128532 | Minimum Absorbed Radiation Dose |
| DCM | 128533 | Mean Absorbed Radiation Dose |
| DCM | 128534 | Mode Absorbed Radiation Dose |
| DCM | 128539 | Median Absorbed Radiation Dose |

CID 10062 Equivalent Radiation Dose Types

Type: Extensible
Version: 20170405

Table CID 10062. Equivalent Radiation Dose Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------------------|
| DCM | 128535 | Maximum Equivalent Radiation Dose |
| DCM | 128536 | Minimum Equivalent Radiation Dose |
| DCM | 128537 | Mean Equivalent Radiation Dose |
| DCM | 128538 | Mode Equivalent Radiation Dose |
| DCM | 128540 | Median Equivalent Radiation Dose |

CID 10063 Radiation Dose Estimate Distribution Representation

Type: Extensible
Version: 20170405

Table CID 10063. Radiation Dose Estimate Distribution Representation

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------|
| DCM | 128484 | Isodose |
| DCM | 128485 | Skin Dose Map |
| DCM | 128487 | 3D Dose Map |
| DCM | 128488 | Dose Gradient |
| DCM | 128496 | Dose Point Cloud |
| DCM | 121342 | Dose Image |

CID 10064 Patient Model Type

Type: Extensible
Version: 20170405

Table CID 10064. Patient Model Type

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------|
| DCM | 128418 | Simple Object Model |
| DCM | 128404 | Anthropomorphic Model |
| DCM | 128494 | Patient Segmented Model |

CID 10065 Radiation Transport Model Type

Type: Extensible
Version: 20170405

Table CID 10065. Radiation Transport Model Type

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------------|
| DCM | 128421 | Geometric Radiation Transport Model |
| DCM | 128422 | Voxelized Radiation Transport Model |
| DCM | 128423 | Mesh Radiation Transport Model |
| DCM | 128424 | NURBS Radiation Transport Model |
| DCM | 128497 | Measured Radiation Dose |
| DCM | 128406 | BREP Radiation Transport Model |

CID 10066 Attenuator Category

Type: Extensible
Version: 20170405

Table CID 10066. Attenuator Category

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| DCM | 128459 | Table | | |
| DCM | 128460 | Table Core | | |
| DCM | 128461 | Table Outer Liner | | |
| DCM | 128462 | Table Pad | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|----------------------|------------------------|
| SRT | A-2C152 | X-Ray shield | 65577000 | C0183263 |
| DCM | 128431 | Beam Block | | |
| SRT | A-010FE | Shielding Block | 228739009 | C0454148 |
| DCM | 128492 | Patient Support | | |
| DCM | 113771 | X-Ray Filters | | |

CID 10067 Radiation Attenuator Materials

Type: Extensible
Version: 20170405

Table CID 10067. Radiation Attenuator Materials

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| Include CID 10006 "X-Ray Filter Materials" | | | | |
| SRT | F-61202 | Carbon Fiber | 256501007 | C0108411 |

CID 10068 Estimate Method Types

Type: Extensible
Version: 20170405

Table CID 10068. Estimate Method Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| MSH | D009010 | Monte Carlo Method | | C0026507 |
| DCM | 128479 | Tabular Data Algorithm | | |
| DCM | 128480 | Analytical Algorithm | | |
| DCM | 128481 | Empirical Algorithm | | |

CID 10069 Radiation Dose Estimation Parameter

Type: Extensible
Version: 20170405

Table CID 10069. Radiation Dose Estimation Parameter

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| DCM | 128405 | Breast Thickness | | |
| DCM | 111634 | Half Value Layer | | |
| DCM | 111046 | Percent Fibroglandular Tissue | | |
| DCM | 128407 | DgN | | |
| DCM | 128408 | Patient AP Dimension | | |
| DCM | 128409 | Patient Lateral Dimension | | |
| DCM | 128410 | SSDE Conversion Factor | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| DCM | 128411 | Backscatter | | |
| DCM | 113981 | Water Equivalent Diameter Representative Value | | |
| DCM | 113982 | Water Equivalent Diameter Integrated Across Scan Range | | |
| DCM | 113983 | Water Equivalent Diameter From Raw Data | | |
| DCM | 113984 | Water Equivalent Diameter From Localizer | | |
| DCM | 128433 | Tissue Air Ratio | | |
| DCM | 128452 | Correction Factor | | |
| DCM | 128453 | Curve Fit Parameter | | |
| DCM | 128455 | Homogeneity Factor | | |
| DCM | 128522 | Normalization Factor | | |
| DCM | 128523 | Offset Factor | | |
| DCM | 112031 | Attenuation Coefficient | | |
| DCM | 128526 | Tissue Fraction | | |
| DCM | 128527 | Distance Correction | | |
| NCIt | C70774 | Unit Conversion Factor | | C2349023 |
| DCM | 121206 | Distance | | |

CID 10070 Radiation Dose Types

Type: Extensible
Version: 20170405

Table CID 10070. Radiation Dose Types

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------|
| DCM | 128513 | Absorbed Dose |
| DCM | 128512 | Equivalent Dose |

CID 12001 Ultrasound Protocol Types

Type: Extensible
Version: 20081027

Table CID 12001. Ultrasound Protocol Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | P5-B3000 | Echocardiography | 40701008 | C0013516 |
| SRT | P5-B3002 | Transesophageal echocardiography | 105376000 | C0206054 |
| SRT | P5-B3012 | Transthoracic echocardiography | 433236007 | C0430462 |
| SRT | P0-05F95 | Epicardial echocardiography | 433232009 | C0430465 |
| SRT | P5-B3005 | Intravascular echocardiography | 252420009 | C0430463 |
| SRT | P5-B3006 | Intracardiac echocardiography | 252421008 | C0430464 |
| SRT | P5-B3050 | Exercise stress echocardiography | 433233004 | C0430466 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|---------------------------------|----------------------|------------------------|
| SRT | P5-B300F | Pediatric echocardiography | 431852008 | C2316452 |
| SRT | P5-B300C | Intraoperative echocardiography | 429884006 | C2317581 |
| SRT | P5-B3090 | Contrast echocardiography | 433231002 | C0013518 |
| SRT | P5-B8215 | Fetal echocardiography | 433235006 | C0412564 |
| <i>Include CID 3261 "Stress Protocols"</i> | | | | |

Note

In a prior version of this context group, Transthoracic echocardiography was assigned the code P5-B3003 and Epicardial echocardiography was assigned the code P5-B3004; these codes conflict with other SNOMED code assignments. In addition, the prior version used many codes that are not actually in SNOMED. Receiving applications should be aware of this change, and the possibility of misinterpretation of SOP Instances that may include the deprecated codes; see Annex J.

CID 12002 Ultrasound Protocol Stage Types

Type: Extensible
Version: 20081027

Table CID 12002. Ultrasound Protocol Stage Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|-------------------|----------------------|------------------------|
| <i>Include CID 3207 "Stress Test Procedure Phases"</i> | | | | |
| <i>Include CID 12102 "Temporal Periods Relating to Procedure or Therapy"</i> | | | | |
| SRT | P2-35000 | Cardiac pacing | 18590009 | C0199640 |
| SRT | P2-71306 | Hand grip | 128965002 | C1293900 |
| SRT | R-40928 | Valsalva maneuver | 261039008 | C0042293 |

Note

A prior version of this context group used many codes that are not actually in SNOMED. Although there is minimal possibility of misinterpretation with SOP Instances that may include the deprecated use, receiving applications should be aware of this change; see Annex J.

CID 12003 OB-GYN Dates

Type: Extensible
Version: 20030130

Table CID 12003. OB-GYN Dates

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|------------------------|
| LN | 11778-8 | EDD | C0596000 |
| LN | 11779-6 | EDD from LMP | C0596001 |
| LN | 11781-2 | EDD from average ultrasound age | C0551898 |
| LN | 11780-4 | EDD from ovulation date | C0551897 |
| LN | 11955-2 | LMP | C0552072 |
| LN | 33066-2 | Estimated LMP by EDD | C1315537 |
| LN | 11976-8 | Ovulation date | C0552093 |
| LN | 33067-0 | Conception Date | C1315538 |

CID 12004 Fetal Biometry Ratios

Type: Extensible
Version: 20030130

Table CID 12004. Fetal Biometry Ratios

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|----------------|------------------------|
| LN | 11947-9 | HC/AC | C0552064 |
| LN | 11871-1 | FL/AC | C0551988 |
| LN | 11872-9 | FL/BPD | C0551989 |
| LN | 11823-2 | Cephalic Index | C0551940 |
| LN | 11873-7 | FL/HC | C0551990 |

CID 12005 Fetal Biometry Measurements

Type: Extensible
Version: 20030130

Table CID 12005. Fetal Biometry Measurements

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|------------------------|
| LN | 11979-2 | Abdominal Circumference | C0552095 |
| LN | 11818-2 | Anterior-Posterior Abdominal Diameter | C0551935 |
| LN | 11819-0 | Anterior-Posterior Trunk Diameter | C0551936 |
| LN | 11820-8 | Biparietal Diameter | C0551937 |
| LN | 11824-0 | BPD area corrected | C0551941 |
| LN | 11860-4 | Cisterna Magna | C0551977 |
| LN | 11963-6 | Femur Length | C0552080 |
| LN | 11965-1 | Foot length | C0552082 |
| LN | 11984-2 | Head Circumference | C0552100 |
| LN | 11851-3 | Occipital-Frontal Diameter | C0551968 |
| LN | 11988-3 | Thoracic Circumference | C0552104 |
| LN | 33068-8 | Thoracic Area | C1315539 |
| LN | 11862-0 | Transverse Abdominal Diameter | C0551979 |
| LN | 11863-8 | Trans Cerebellar Diameter | C0551980 |
| LN | 11864-6 | Transverse Thoracic Diameter | C0551981 |
| LN | 11853-9 | Left Kidney thickness | C0551970 |
| LN | 11834-9 | Left Kidney length | C0551951 |
| LN | 11825-7 | Left Kidney width | C0551942 |
| LN | 11855-4 | Right Kidney thickness | C0551972 |
| LN | 11836-4 | Right Kidney length | C0551953 |
| LN | 11827-3 | Right Kidney width | C0551944 |
| LN | 33191-8 | APAD * TAD | C1315662 |

CID 12006 Fetal Long Bones Biometry Measurements

Type: Extensible
Version: 20030130

Table CID 12006. Fetal Long Bones Biometry Measurements

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|-----------------|------------------------|
| LN | 11966-9 | Humerus length | C0552083 |
| LN | 11967-7 | Radius length | C0552084 |
| LN | 11969-3 | Ulna length | C0552086 |
| LN | 11968-5 | Tibia length | C0552085 |
| LN | 11964-4 | Fibula length | C0552081 |
| LN | 11962-8 | Clavicle length | C0552079 |
| LN | 11963-6 | Femur Length | C0552080 |

CID 12007 Fetal Cranium

Type: Extensible
Version: 20030130

Table CID 12007. Fetal Cranium

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--|------------------------|
| LN | 12171-5 | Lateral Ventricle width | C0552284 |
| LN | 11860-4 | Cisterna Magna length | C0551977 |
| LN | 12146-7 | Nuchal Fold thickness | C0552259 |
| LN | 33070-4 | Inner Orbital Diameter | C1315541 |
| LN | 11629-3 | Outer Orbital Diameter | C0551748 |
| LN | 11863-8 | Trans Cerebellar Diameter | C0551980 |
| LN | 33069-6 | Nuchal Translucency | C1315540 |
| LN | 33197-5 | Anterior Horn Lateral ventricular width | C1315668 |
| LN | 33196-7 | Posterior Horn Lateral ventricular width | C1315667 |
| LN | 12170-7 | Width of Hemisphere | C0552283 |

CID 12008 OB-GYN Amniotic Sac

Type: Extensible
Version: 20030130

Table CID 12008. OB-GYN Amniotic Sac

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| LN | 11624-4 | First Quadrant Diameter | | C0551743 |
| LN | 11626-9 | Second Quadrant Diameter | | C0551745 |
| LN | 11625-1 | Third Quadrant Diameter | | C0551744 |
| LN | 11623-6 | Fourth Quadrant Diameter | | C0551742 |
| SRT | M-02550 | Diameter | 81827009 | C1301886 |

CID 12009 Early Gestation Biometry Measurements

Type: Extensible
Version: 20030130

Table CID 12009. Early Gestation Biometry Measurements

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|------------------------|
| LN | 11957-8 | Crown Rump Length | C0552074 |
| LN | 11850-5 | Gestational Sac Diameter | C0551967 |
| LN | 33071-2 | Spine Length | C1315542 |
| LN | 11816-6 | Yolk Sac length | C0551933 |
| LN | 33069-6 | Nuchal Translucency | C1315540 |

CID 12011 Ultrasound Pelvis and Uterus

Type: Extensible
Version: 20030130

Table CID 12011. Ultrasound Pelvis and Uterus

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|------------------------|
| LN | 11961-0 | Cervix Length | C0552078 |
| LN | 12145-9 | Endometrium Thickness | C0552258 |

CID 12012 OB Equations and Tables

Type: Extensible
Version: 20030130

Table CID 12012. OB Equations and Tables

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 12013 "Gestational Age Equations and Tables"</i> | | |
| <i>Include CID 12014 "OB Fetal Body Weight Equations and Tables"</i> | | |
| <i>Include CID 12015 "Fetal Growth Equations and Tables"</i> | | |
| <i>Include CID 12016 "Estimated Fetal Weight Percentile Equations and Tables"</i> | | |

CID 12013 Gestational Age Equations and Tables

These terms define a functional relationship of the gestational age from a biometric measurement.

Type: Extensible
Version: 20061024

Table CID 12013. Gestational Age Equations and Tables

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|------------------------|
| LN | 11885-1 | Gestational Age by LMP | C0552002 |
| LN | 11884-4 | Average Ultrasound Age | C0552001 |
| LN | 33072-0 | AC, ASUM 2000 | C1315543 |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|------------------------|
| LN | 11889-3 | AC, Campbell 1975 | C0552006 |
| LN | 11892-7 | AC, Hadlock 1984 | C0552009 |
| LN | 33073-8 | AC, Hansmann1985 | C1315544 |
| LN | 33537-2 | AC, Jeanty 1982 | C1316006 |
| LN | 11893-5 | AC, Jeanty 1984 | C0552010 |
| LN | 33074-6 | AC, Lessoway 1998 | C1315545 |
| LN | 33075-3 | AC, Mertz 1988 | C1315546 |
| LN | 33076-1 | AC, Shinozuka 1996 | C1315547 |
| LN | 33077-9 | A-P Abdominal Diameter, Lessoway 1998 | C1315548 |
| LN | 33078-7 | AxT, Shinozuka 1996 | C1315549 |
| LN | 33079-5 | BPD, ASUM 1989 | C1315550 |
| LN | 11900-8 | BPD, Doubilet 1993 | C0552017 |
| LN | 11902-4 | BPD, Hadlock 1984 | C0552019 |
| LN | 11903-2 | BPD, Hansmann 1985 | C0552020 |
| LN | 33538-0 | BPD, Hansmann 1986 | C1316007 |
| LN | 33539-8 | BPD, Jeanty 1982 | C1316008 |
| LN | 11905-7 | BPD, Jeanty 1984 | C0552022 |
| LN | 11906-5 | BPD, Kurtz 1980 | C0552023 |
| LN | 33080-3 | BPD, Lessoway 1998 | C1315551 |
| LN | 33081-1 | BPD, Mertz 1988 | C1315552 |
| LN | 33082-9 | BPD, Osaka 1989 | C1315553 |
| LN | 33083-7 | BPD, Rempen 1991 | C1315554 |
| LN | 11907-3 | BPD, Sabbagha 1978 | C0552024 |
| LN | 33084-5 | BPD, Shinozuka 1996 | C1315555 |
| LN | 33085-2 | BPD, Tokyo 1986 | C1315556 |
| LN | 11901-6 | BPDa, Hadlock 1982 | C0552018 |
| LN | 33086-0 | BPD-oi, Chitty 1997 | C1315557 |
| LN | 33087-8 | BPD-oo, Chitty 1997 | C1315558 |
| LN | 33088-6 | Clavicle length, Yarkoni 1985 | C1315559 |
| LN | 33089-4 | CRL, ASUM 1991 | C1315560 |
| LN | 33090-2 | CRL, ASUM 2000 | C1315561 |
| LN | 33091-0 | CRL, Daya 1993 | C1315562 |
| LN | 11910-7 | CRL, Hadlock 1992 | C0552027 |
| LN | 11911-5 | CRL, Hansmann 1985 | C0552028 |
| LN | 33540-6 | CRL, Hansmann 1986 | C1316009 |
| LN | 33092-8 | CRL, Jeanty 1982 | C1315563 |
| LN | 11917-2 | CRL, Jeanty 1984 | C0552034 |
| LN | 11913-1 | CRL, Nelson 1981 | C0552030 |
| LN | 33093-6 | CRL, Osaka 1989 | C1315564 |
| LN | 33094-4 | CRL, Rempen 1991 | C1315565 |
| LN | 11914-9 | CRL, Robinson 1975 | C0552031 |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|------------------------|
| LN | 33095-1 | CRL, Shinozuka 1996 | C1315566 |
| LN | 33096-9 | CRL, Tokyo 1986 | C1315567 |
| LN | 33097-7 | Fibula, Jeanty 1983 | C1315568 |
| LN | 11918-0 | Fibula, Merz 1987 | C0552035 |
| LN | 33098-5 | FL, Chitty 1997 | C1315569 |
| LN | 11920-6 | FL, Hadlock 1984 | C0552037 |
| LN | 11921-4 | FL, Hansmann 1985 | C0552038 |
| LN | 33541-4 | FL, Hansmann 1986 | C1316010 |
| LN | 11922-2 | FL, Hohler 1982 | C0552039 |
| LN | 33099-3 | FL, Jeanty 1982 | C1315570 |
| LN | 11923-0 | FL, Jeanty 1984 | C0552040 |
| LN | 33100-9 | FL, Lessoway 1998 | C1315571 |
| LN | 11924-8 | FL, Merz 1987 | C0552042 |
| LN | 33542-2 | FL, Merz 1988 | C1316011 |
| LN | 33101-7 | FL, Osaka 1989 | C1315572 |
| LN | 33102-5 | FL, Shinozuka 1996 | C1315573 |
| LN | 33103-3 | FL, Tokyo 1986 | C1315574 |
| LN | 11926-3 | Foot Length, Mercer 1987 | C0552041 |
| LN | 33104-1 | GS, Daya 1991 | C1315575 |
| LN | 33105-8 | GS, Hansmann 1979 | C1315576 |
| LN | 33106-6 | GS, Hansmann 1982 | C1315577 |
| LN | 11928-9 | GS, Hellman 1969 | C0552045 |
| LN | 33107-4 | GS, Nyberg 1992 | C1315578 |
| LN | 11929-7 | GS, Rempen 1991 | C0552046 |
| LN | 33108-2 | GS, Tokyo 1986 | C1315579 |
| LN | 33109-0 | HC, ASUM 2000 | C1315580 |
| LN | 33110-8 | HC measured, Chitty 1997 | C1315581 |
| LN | 33111-6 | HC derived, Chitty 1997 | C1315582 |
| LN | 11932-1 | HC, Hadlock 1984 | C0552049 |
| LN | 33112-4 | HC, Hansmann 1985 | C1315583 |
| LN | 33543-0 | HC, Hansmann 1986 | C1316012 |
| LN | 33113-2 | HC, Jeanty 1982 | C1315584 |
| LN | 11934-7 | HC, Jeanty 1984 | C0552051 |
| LN | 33114-0 | HC, Lessoway 1998 | C1315585 |
| LN | 33115-7 | HC Merz, 1988 | C1315586 |
| LN | 33116-5 | Humerus Length, ASUM 2000 | C1315587 |
| LN | 11936-2 | Humerus, Jeanty 1984 | C0552053 |
| LN | 11937-0 | Humerus, Merz 1987 | C0552054 |
| LN | 33117-3 | Humerus Length, Osaka 1989 | C1315588 |
| LN | 33118-1 | Length of Vertebra, Tokyo 1986 | C1315589 |
| LN | 33119-9 | OFD, ASUM 2000 | C1315590 |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--|------------------------|
| LN | 33544-8 | OFD, Hansmann 1985 | C1316013 |
| LN | 33120-7 | OFD, Hansmann 1986 | C1315591 |
| LN | 33121-5 | OFD, Lessoway 1998 | C1315592 |
| LN | 33122-3 | IOD, Mayden 1982 | C1315593 |
| LN | 33123-1 | IOD, Trout 1994 | C1315594 |
| LN | 33545-5 | BD, Jeanty 1982 | C1316014 |
| LN | 33124-9 | OOD, Mayden, 1982 | C1315595 |
| LN | 33125-6 | OOD, Trout 1994 | C1315596 |
| LN | 33126-4 | Radius, Jeanty 1983 | C1315597 |
| LN | 11939-6 | Radius, Merz 1987 | C0552056 |
| LN | 33127-2 | Spine Length, Tokyo, 1989 | C1315598 |
| LN | 11941-2 | Tibia, Jeanty 1984 | C0552058 |
| LN | 33128-0 | TAD, Eriksen 1985 | C1315599 |
| LN | 33129-8 | TAD Hansmann, 1979 | C1315600 |
| LN | 33130-6 | TAD, Tokyo 1986 | C1315601 |
| LN | 33131-4 | ThC, Chitkara 1987 | C1315602 |
| LN | 33132-2 | TCD, Chitty 1994 | C1315603 |
| LN | 33133-0 | TCD, Goldstein 1987 | C1315604 |
| LN | 33134-8 | TCD, Hill 1990 | C1315605 |
| LN | 33135-5 | TCD, Nimrod 1986 | C1315606 |
| LN | 33136-3 | Transverse Thoracic Diameter, Hansmann 1985 | C1315607 |
| LN | 33137-1 | Transverse Thoracic Diameter, Lessoway 1998 | C1315608 |
| LN | 33138-9 | Fetal Trunk Cross-Sectional Area, Osaka 1989 | C1315609 |
| LN | 11944-6 | Ulna, Jeanty 1984 | C0552061 |
| LN | 11945-3 | Ulna, Merz 1987 | C0552062 |

CID 12014 OB Fetal Body Weight Equations and Tables

These terms define a functional relationship to estimated fetal body mass from a biometric measurement.

Type: Extensible
Version: 20030130

Table CID 12014. OB Fetal Body Weight Equations and Tables

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|------------------------|
| LN | 11756-4 | EFW by AC, Campbell 1975 | C0551875 |
| LN | 11738-2 | EFW by AC, BPD, Hadlock 1984 | C0551857 |
| LN | 11734-1 | EFW by AC, BPD, FL, Hadlock 1984 | C0551853 |
| LN | 11735-8 | EFW by AC, BPD, FL, Hadlock 1985 | C0551854 |
| LN | 11732-5 | EFW by AC, BPD, FL, HC, Hadlock 1985 | C0551851 |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|------------------------|
| LN | 11750-7 | EFW by AC, FL, Hadlock 1984 | C0551869 |
| LN | 11751-5 | EFW by AC, FL, Hadlock 1985 | C0551870 |
| LN | 11746-5 | EFW by AC, FL, HC, Hadlock 1985 | C0551865 |
| LN | 11754-9 | EFW by AC, HC Hadlock 1984 | C0551873 |
| LN | 33139-7 | EFW by BPD, TTD, Hansmann 1986 | C1315610 |
| LN | 11739-0 | EFW by AC and BPD, Shepard 1982 | C0551858 |
| LN | 33140-5 | EFW by BPD, FTA, FL, Osaka 1990 | C1315611 |
| LN | 33141-3 | EFW1 by Shinozuka 1996 | C1315612 |
| LN | 33142-1 | EFW2 by Shinozuka 1996 | C1315613 |
| LN | 33143-9 | EFW3 by Shinozuka 1996 | C1315614 |
| LN | 33144-7 | EFW by BPD, APAD, TAD, FL, Tokyo 1987 | C1315615 |

CID 12015 Fetal Growth Equations and Tables

These terms specify biometric growth parameter of a population distribution as a function of gestational age. The term may also specify the population's distribution, and so enable calculating a percentile rank or Z-score relative to the distribution.

Type: Extensible
Version: 20030130

Table CID 12015. Fetal Growth Equations and Tables

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|------------------------|
| LN | 33145-4 | AC by GA, ASUM 2000 | C1315616 |
| LN | 33146-2 | AC by GA, Hadlock 1984 | C1315617 |
| LN | 33147-0 | AC (measured) by GA, Chitty 1994 | C1315618 |
| LN | 33546-3 | AC (derived) by GA, Chitty 1994 | C1316015 |
| LN | 33148-8 | AC by GA, Merz 1988 | C1315619 |
| LN | 33149-6 | AC by GA, Shinozuka 1996 | C1315620 |
| LN | 33150-4 | AxT by GA, Shinozuka 1996 | C1315621 |
| LN | 33151-2 | BPD by GA, ASUM 2000 | C1315622 |
| LN | 33198-3 | BPD by GA, Hadlock 1984 | C1315669 |
| LN | 33556-2 | BPD outer-inner by GA, Chitty 1994 | C1316025 |
| LN | 33152-0 | BPD outer-outer by GA, Chitty 1994 | C1315623 |
| LN | 33153-8 | BPD by GA, Jeanty 1982 | C1315624 |
| LN | 33154-6 | BPD by GA, Merz 1988 | C1315625 |
| LN | 33155-3 | BPD by GA, Rempen 1991 | C1315626 |
| LN | 33156-1 | BPD by GA, Shinozuka 1996 | C1315627 |
| LN | 33157-9 | Cephalic Index by GA, Chitty 1994 | C1315628 |
| LN | 33158-7 | Cephalic Index by GA, Hadlock 1981 | C1315629 |
| LN | 33159-5 | CRL by GA ASUM 2000 | C1315630 |
| LN | 33160-3 | CRL by GA, Rempen1991 | C1315631 |
| LN | 33161-1 | CRL by GA, Shinozuka 1996 | C1315632 |
| LN | 33162-9 | EFW by GA, Hadlock 1991 | C1315633 |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|------------------------|
| LN | 33163-7 | EFW by GA, Hansmann 1986 | C1315634 |
| LN | 33164-5 | Fibula by GA, Jeanty 1983 | C1315635 |
| LN | 33165-2 | FL by GA, ASUM 2000 | C1315636 |
| LN | 33166-0 | FL by GA, Hadlock 1984 | C1315637 |
| LN | 33167-8 | FL by GA, Chitty 1994 | C1315638 |
| LN | 33168-6 | FL by GA, Jeanty 1982 | C1315639 |
| LN | 33169-4 | FL by GA, Merz 1988 | C1315640 |
| LN | 33170-2 | FL by GA, Shinozuka 1996 | C1315641 |
| LN | 33171-0 | GS by GA, Rempen 1991 | C1315642 |
| LN | 33172-8 | HC by GA, ASUM 2000 | C1315643 |
| LN | 33173-6 | HC by GA, Hadlock 1984 | C1315644 |
| LN | 33174-4 | HC derived by GA, Chitty 1994 | C1315645 |
| LN | 33175-1 | HC by GA, Jeanty 1982 | C1315646 |
| LN | 33176-9 | HC by GA, Merz 1988 | C1315647 |
| LN | 33177-7 | Humerus Length by GA, ASUM 2000 | C1315648 |
| LN | 33178-5 | OFD by GA, ASUM 2000 | C1315649 |
| LN | 33179-3 | OFD by GA, Chitty 1994 | C1315650 |
| LN | 33180-1 | Radius by GA, Jeanty 1983 | C1315651 |
| LN | 33181-9 | TCD by GA Goldstein 1987 | C1315652 |
| LN | 33182-7 | HC/AC by GA, Campbell 1977 | C1315653 |

CID 12016 Estimated Fetal Weight Percentile Equations and Tables

These terms specify the population distribution for use in Z-score and percentile rank.

Type: Extensible
Version: 20160525

Table CID 12016. Estimated Fetal Weight Percentile Equations and Tables

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|---|------------------------|
| DCM | 128040 | FWP by GA, Campbell, 1991 | |
| DCM | 128041 | FWP by GA, Hadlock, 1991 | |
| LN | 33184-3 | FWP by GA, Williams, 1982 | C1315655 |
| LN | 33185-0 | FWP by GA, Alexander, 1996 | C1315656 |
| LN | 33186-8 | Male Singleton BWP by GA, Arbuckle 1993 | C1315657 |
| LN | 33187-6 | Female Singleton BWP by GA, Arbuckle 1993 | C1315658 |
| LN | 33199-1 | Male Twins BWP by GA, Arbuckle 1993 | C1315670 |
| LN | 33188-4 | Female Twins BWP by GA, Arbuckle 1993 | C1315659 |
| LN | 33189-2 | FWP by GA, Brenner 1976 | C1315660 |
| LN | 33190-0 | FWP by GA, Hadlock 1985 | C1315661 |

Note

LN:33183-5 was previously included in this context group with a Code Meaning of "FWP by GA, Hadlock 1991", but is described in LOINC as "Fetal body weight growth percentile estimated from gestational age by method of Campbell 1991 (US)". Devices receiving LN:33183-5 may need to consult the Code Meaning value to determine whether the sender meant Hadlock 1991 or Campbell 1991. New codes have been defined to replace LN:33183-5 to resolve the potential ambiguity.

CID 12017 Growth Distribution Rank

Type: Extensible
Version: 20030130

Table CID 12017. Growth Distribution Rank

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|------------------------|
| DCM | 125012 | Growth Percentile Rank |
| DCM | 125013 | Growth Z-score |

CID 12018 OB-GYN Summary

Type: Extensible
Version: 20030130

Table CID 12018. OB-GYN Summary

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|------------------------|
| LN | 11878-6 | Number of Fetuses by US | C0551995 |
| LN | 11886-9 | Gestational Age by ovulation date | C0552003 |

CID 12019 OB-GYN Fetus Summary

Type: Extensible
Version: 20030130

Table CID 12019. OB-GYN Fetus Summary

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|------------------------|
| LN | 18185-9 | Gestational Age | C1148461 |
| LN | 11888-5 | Composite Ultrasound Age | C0552005 |
| LN | 11885-1 | Gestational Age by LMP | C0552002 |
| LN | 11727-5 | Estimated Weight | C0551846 |
| LN | 11767-1 | EFW percentile rank | C0551886 |
| LN | 11948-7 | Fetal Heart Rate | C0552065 |

CID 12020 Fetal Biometry Anatomic Sites

Type: Extensible
Version: 20141110

Table CID 12020. Fetal Biometry Anatomic Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | T-D4000 | Abdomen | 113345001 | C0000726 |
| SRT | T-A6000 | Cerebellum | 113305005 | C0007765 |
| SRT | T-A1520 | Cisterna Magna | 54165005 | C0008841 |
| SRT | T-12710 | Femur | 71341001 | C0015811 |
| SRT | T-D9700 | Foot | 56459004 | C0016504 |
| SRT | T-71000 | Kidney | 64033007 | C0022646 |
| SRT | T-11100 | Skull | 89546000 | C0037303 |
| SRT | T-D3000 | Thorax | 51185008 | C0817096 |
| SRT | T-D2000 | Trunk | 22943007 | C0460005 |

CID 12021 Fetal Long Bone Anatomic Sites

Type: Extensible
Version: 20141110

Table CID 12021. Fetal Long Bone Anatomic Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | T-12310 | Clavicle | 51299004 | C0008913 |
| SRT | T-12710 | Femur | 71341001 | C0015811 |
| SRT | T-12750 | Fibula | 87342007 | C0016068 |
| SRT | T-12750 | Radius | 87342007 | C0016068 |
| SRT | T-12740 | Tibia | 12611008 | C0040184 |
| SRT | T-12430 | Ulna | 23416004 | C0041600 |

CID 12022 Fetal Cranium Anatomic Sites

Type: Extensible
Version: 20160314

Table CID 12022. Fetal Cranium Anatomic Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------------|----------------------|------------------------|
| SRT | T-A1700 | Anterior Horn Lateral Ventricle | 30399003 | C0152281 |
| SRT | T-A6000 | Cerebellum | 113305005 | C0007765 |
| SRT | T-A010F | Cerebral hemisphere | 372073000 | C0228174 |
| SRT | T-A1520 | Cisterna magna | 54165005 | C0008841 |
| SRT | T-A1650 | Lateral Ventricle | 66720007 | C0152279 |
| SRT | R-FB565 | Occipital region of scalp | 700032006 | C3697080 |
| SRT | T-D14AE | Orbit | 363654007 | C0029180 |
| SRT | T-A1710 | Posterior Horn Lateral Ventricle | 52943005 | C0152282 |

CID 12023 Pelvis and Uterus Anatomic Sites

Type: Extensible
Version: 20141110

Table CID 12023. Pelvis and Uterus Anatomic Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | T-83200 | Cervix | 71252005 | C0007874 |
| SRT | T-83400 | Endometrium | 2739003 | C0014180 |
| SRT | T-83000 | Uterus | 35039007 | C0042149 |

CID 12030 Ultrasound Contrast/Bolus Agents

Type: Extensible
Version: 20090409

Table CID 12030. Ultrasound Contrast/Bolus Agents

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|---------------|--------------|
| DCM | 125901 | CARDIOsphere |
| NDC | 11994-*011-04 | Definity |
| DCM | 125902 | Echovist |
| DCM | 125903 | Imagify |
| DCM | 125904 | Levovist |
| NDC | 00019-2707-03 | Optison |
| DCM | 125905 | Sonazoid |
| DCM | 125906 | SonoVue |
| DCM | 125907 | Targestar-B |
| DCM | 125908 | Targestar-P |

Note

1. See Controlled Terminology descriptions in Annex D for manufacturer references.
2. The generic formulation is not used for Code Meaning (0008,0104) because for ultrasonic contrast agents the physical properties of the agent are more significant than chemical formula in determining its acoustic properties.

CID 12031 Protocol Interval Events

Type: Extensible
Version: 20090409

Table CID 12031. Protocol Interval Events

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 125233 | Start of drug dose administration |
| DCM | 125234 | Start of contrast agent administration |
| DCM | 125235 | Destruction of microbubbles |
| DCM | 125236 | Onset of exercise |
| DCM | 125237 | Cessation of exercise |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | 125238 | Onset of stimulation |
| DCM | 125239 | Cessation of stimulation |

CID 12032 Transducer Scan Pattern

Type: Extensible
Version: 20090409

Table CID 12032. Transducer Scan Pattern

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------|
| DCM | 125240 | Line scan pattern |
| DCM | 125241 | Plane scan pattern |
| DCM | 125242 | Volume scan pattern |

CID 12033 Ultrasound Transducer Geometry

Type: Extensible
Version: 20090409

Table CID 12033. Ultrasound Transducer Geometry

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 125251 | Non-imaging Doppler ultrasound transducer geometry |
| DCM | 125252 | Linear ultrasound transducer geometry |
| DCM | 125253 | Curved linear ultrasound transducer geometry |
| DCM | 125254 | Sector ultrasound transducer geometry |
| DCM | 125255 | Radial ultrasound transducer geometry |
| DCM | 125256 | Ring ultrasound transducer geometry |

CID 12034 Ultrasound Transducer Beam Steering

Type: Extensible
Version: 20090409

Table CID 12034. Ultrasound Transducer Beam Steering

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | 125257 | Fixed beam direction |
| DCM | 125258 | Mechanical beam steering |
| DCM | 125259 | Phased beam steering |

CID 12035 Ultrasound Transducer Application

Type: Extensible
Version: 20090409

Table CID 12035. Ultrasound Transducer Application

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------------|
| DCM | 125261 | External Transducer |
| DCM | 125262 | Transesophageal Transducer |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------------------|
| DCM | 125263 | Endovaginal Transducer |
| DCM | 125264 | Endorectal Transducer |
| DCM | 125265 | Intravascular Transducer |

CID 12101 Vascular Summary

Type: Extensible
Version: 20030327

Table CID 12101. Vascular Summary

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--------------|
| DCM | 121106 | Comment |

CID 12102 Temporal Periods Relating to Procedure or Therapy

Type: Extensible
Version: 20050110

Table CID 12102. Temporal Periods Relating to Procedure or Therapy

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------|----------------------|------------------------|
| SRT | R-422A4 | After Procedure | 303110006 | C0580203 |
| SRT | R-40FBA | During Procedure | 307154001 | C0585033 |
| SRT | R-40FB9 | Before Procedure | 307153007 | C0585032 |

CID 12103 Vascular Ultrasound Anatomic Location

Type: Extensible
Version: 20030327

Table CID 12103. Vascular Ultrasound Anatomic Location

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| Include CID 12104 "Extracranial Arteries" | | |
| Include CID 12105 "Intracranial Cerebral Vessels" | | |
| Include CID 12106 "Intracranial Cerebral Vessels (Unilateral)" | | |
| Include CID 12107 "Upper Extremity Arteries" | | |
| Include CID 12108 "Upper Extremity Veins" | | |
| Include CID 12109 "Lower Extremity Arteries" | | |
| Include CID 12110 "Lower Extremity Veins" | | |
| Include CID 12111 "Abdominal Arteries (Lateral)" | | |
| Include CID 12112 "Abdominal Arteries (Unilateral)" | | |
| Include CID 12113 "Abdominal Veins (Lateral)" | | |
| Include CID 12114 "Abdominal Veins (Unilateral)" | | |
| Include CID 12115 "Renal Vessels" | | |

CID 12104 Extracranial Arteries

This context group specifies the anatomic location for vascular observations

Type: Extensible
Version: 20030327

Table CID 12104. Extracranial Arteries

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | T-45160 | Carotid Bifurcation | 80272002 | C0226088 |
| SRT | T-45170 | Carotid Bulb | 21479005 | C0007281 |
| SRT | T-45100 | Common Carotid Artery | 32062004 | C0162859 |
| SRT | T-45200 | External Carotid Artery | 22286001 | C0007275 |
| SRT | T-45300 | Internal Carotid Artery | 86117002 | C0007276 |
| SRT | T-46100 | Subclavian Artery | 36765005 | C0038530 |
| SRT | T-45700 | Vertebral Artery | 85234005 | C0042559 |

CID 12105 Intracranial Cerebral Vessels

Type: Extensible
Version: 20160314

Table CID 12105. Intracranial Cerebral Vessels

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-45540 | Anterior Cerebral Artery | 60176003 | C0149561 |
| SRT | T-45530 | Anterior Communicating Artery | 8012006 | C0149562 |
| SRT | G-0368 | Anterior-Middle Cerebral Artery Bifurcation | 397418009 | C1301412 |
| SRT | G-0369 | Anterior-Posterior Cerebral Artery Bifurcation | 397419001 | C1301413 |
| SRT | T-45308 | Carotid Siphon | 54409005 | C0226162 |
| SRT | T-45430 | Central Retinal Artery | 76117006 | C0035301 |
| SRT | T-48286 | Central Retinal Vein | 62869001 | C0035327 |
| SRT | T-45300 | Internal Carotid Artery | 86117002 | C0007276 |
| SRT | R-102BB | Internal Carotid Artery C5 segment | 415637004 | C1532941 |
| SRT | R-FAED1 | Internal Carotid Artery C6 segment | 698348000 | C3697273 |
| SRT | R-102BD | Terminal internal carotid artery | 415646005 | C1533000 |
| SRT | T-45600 | Middle Cerebral Artery | 17232002 | C0149566 |
| SRT | R-1024F | Middle Cerebral Artery M1 Segment | 414722000 | C0923620 |
| SRT | R-10251 | Middle Cerebral Artery M2 Segment | 414723005 | C0923622 |
| SRT | T-45400 | Ophthalmic Artery | 53549008 | C0029078 |
| SRT | T-45900 | Posterior Cerebral Artery | 70382005 | C0149576 |
| SRT | R-10253 | Posterior Cerebral Artery P1 Segment | 415144009 | C0923795 |
| SRT | R-10255 | Posterior Cerebral Artery P2 Segment | 415145005 | C0923796 |
| SRT | T-45320 | Posterior Communicating Artery | 43119007 | C0149559 |

CID 12106 Intracranial Cerebral Vessels (Unilateral)

Type: Extensible
Version: 20030327

Table CID 12106. Intracranial Cerebral Vessels (Unilateral)

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | T-45800 | Basilar Artery | 59011009 | C0004811 |

CID 12107 Upper Extremity Arteries

Type: Extensible
Version: 20050110

Table CID 12107. Upper Extremity Arteries

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|----------------------|------------------------|
| SRT | T-47100 | Axillary Artery | 67937003 | C0004455 |
| SRT | T-47160 | Brachial Artery | 17137000 | C0006087 |
| SRT | T-47340 | Deep Palmar Arch of Radial Artery | 10119003 | C0226441 |
| SRT | T-46010 | Innominate Artery | 12691009 | C0006094 |
| SRT | T-47300 | Radial Artery | 45631007 | C0162857 |
| SRT | T-46100 | Subclavian Artery | 36765005 | C0038530 |
| SRT | T-47240 | Superficial Palmar Arch | 26818002 | C0226433 |
| SRT | T-47200 | Ulnar Artery | 44984001 | C0162858 |
| SRT | T-47260 | Digital artery of hand | 40254007 | C0226435 |

CID 12108 Upper Extremity Veins

Type: Extensible
Version: 20160314

Table CID 12108. Upper Extremity Veins

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | T-49110 | Axillary vein | 68705008 | C0004456 |
| SRT | T-49230 | Basilic vein | 19715009 | C0226801 |
| SRT | T-49350 | Brachial vein | 20115005 | C0226812 |
| SRT | T-49240 | Cephalic vein | 20699002 | C0226802 |
| SRT | T-48620 | Innominate vein | 8887007 | C0006095 |
| SRT | T-48170 | Internal Jugular vein | 12123001 | C0226550 |
| SRT | T-49250 | Median Cubital vein | 49852007 | C0226805 |
| SRT | T-49340 | Radial vein | 52359001 | C0226811 |
| SRT | T-48330 | Subclavian vein | 9454009 | C0038532 |
| SRT | T-49330 | Ulnar vein | 17623008 | C0226810 |
| SRT | T-48610 | Superior Vena Cava | 48345005 | C0042459 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | T-49218 | Deep Palmar Venous Arch | 368481004 | C0226798 |
| SRT | T-49217 | Superficial Palmar Venous Arch | 368479001 | C0226796 |

CID 12109 Lower Extremity Arteries

Type: Extensible
Version: 20050110

Table CID 12109. Lower Extremity Arteries

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | T-46710 | Common Iliac Artery | 73634005 | C1261084 |
| SRT | R-10258 | Common Iliac Artery Bifurcation | 413896006 | C1531837 |
| SRT | T-47700 | Anterior Tibial Artery | 68053000 | C0085816 |
| SRT | T-47400 | Common Femoral Artery | 7657000 | C0015801 |
| SRT | T-47741 | Dorsalis Pedis Artery | 181362007 | C1269022 |
| SRT | T-46910 | External Iliac Artery | 113269004 | C0226398 |
| SRT | T-46740 | Internal Iliac Artery | 90024005 | C0226364 |
| SRT | T-47630 | Peroneal Artery | 8821006 | C0226476 |
| SRT | T-47690 | Plantar Arterial Arch | 83018002 | C0226482 |
| SRT | T-47500 | Popliteal Artery | 43899006 | C0032649 |
| SRT | T-47600 | Posterior Tibial Artery | 13363002 | C0086835 |
| SRT | T-47440 | Profunda Femoris Artery | 31677005 | C0226455 |
| SRT | T-47403 | Superficial Femoral Artery | 181349008 | C0447106 |

CID 12110 Lower Extremity Veins

Type: Extensible
Version: 20160314

Table CID 12110. Lower Extremity Veins

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | T-49630 | Anterior Tibial Vein | 26703007 | C0226833 |
| SRT | T-F6724 | Lateral calf perforator | 714754004 | C4075130 |
| SRT | G-035B | Common Femoral Vein | 397363009 | C1275667 |
| SRT | T-48920 | Common Iliac Vein | 46027005 | C0226758 |
| SRT | T-48930 | External Iliac Vein | 63507001 | C0226761 |
| SRT | T-4942D | Gastrocnemius vein | 264481007 | C0450291 |
| SRT | G-036F | Giacomini vein | 397437000 | C1301429 |
| SRT | T-49530 | Great Saphenous Vein | 60734001 | C0036186 |
| SRT | R-10259 | Great Saphenous Vein of Thigh | 414369008 | C1531999 |
| SRT | R-1025A | Great Saphenous Vein of Calf | 414368000 | C1531998 |
| SRT | T-49550 | Lesser Saphenous Vein | 26805005 | C0226827 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | T-49640 | Peroneal Vein | 71758008 | C0226836 |
| SRT | T-49650 | Popliteal Vein | 56849005 | C0032652 |
| SRT | G-036E | Posterior arch vein | 397435008 | C1301427 |
| SRT | T-49620 | Posterior Tibial Vein | 4258007 | C0226832 |
| SRT | T-49660 | Profunda Femoris Vein | 23438002 | C0226841 |
| SRT | T-D930A | Saphenofemoral Junction | 128587003 | C0447132 |
| SRT | G-036B | Soleal vein | 397427005 | C1301420 |
| SRT | G-035A | Superficial Femoral Vein | 397364003 | C1301369 |
| SRT | T-F6713 | Thigh perforator | 714759009 | C4075125 |
| SRT | T-48940 | Internal iliac vein | 40300007 | C0226764 |
| SRT | T-4941A | Saphenopopliteal junction | 244415001 | C0447131 |
| SRT | T-4942A | Hunterian perforating vein | 128560002 | C1267526 |
| SRT | T-49426 | Cockett's perforating vein | 128549006 | C1267523 |
| SRT | T-49424 | Boyd's perforating vein | 128548003 | C1267522 |

CID 12111 Abdominal Arteries (Lateral)

Type: Extensible
Version: 20050110

Table CID 12111. Abdominal Arteries (Lateral)

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | T-46640 | Accessory Renal Artery | 85383006 | C0226335 |
| SRT | T-46410 | Gastric Artery | 23771002 | C0226299 |
| SRT | T-46980 | Ovarian Artery | 12052000 | C0226411 |
| SRT | T-46970 | Testicular Artery | 27175001 | C0226409 |
| SRT | T-F1810 | Umbilical Artery | 50536004 | C0041632 |
| SRT | T-46820 | Uterine Artery | 91079009 | C0226378 |

CID 12112 Abdominal Arteries (Unilateral)

Type: Extensible
Version: 20050110

Table CID 12112. Abdominal Arteries (Unilateral)

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------|----------------------|------------------------|
| SRT | T-42000 | Aorta | 15825003 | C0003483 |
| SRT | T-42520 | Infra-renal Aorta | 28205006 | C0226025 |
| SRT | T-42510 | Supra-renal Aorta | 1918003 | C0226024 |
| SRT | T-46400 | Celiac Axis | 57850000 | C0007569 |
| SRT | T-46421 | Common Hepatic Artery | 66559000 | C0226300 |
| SRT | T-46710 | Common Iliac Artery | 73634005 | C1261084 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------|----------------------|------------------------|
| SRT | T-46440 | Gastroduodenal Artery | 37274004 | C0226311 |
| SRT | T-46520 | Inferior Mesenteric Artery | 33795007 | C0162860 |
| SRT | T-46960 | Lumbar Artery | 34635009 | C0226408 |
| SRT | T-46422 | Proper Hepatic Artery | 18112008 | C0226301 |
| SRT | T-46423 | Right Branch of Hepatic Artery | 69421009 | C0226302 |
| SRT | T-46427 | Left Branch of Hepatic Artery | 21807003 | C0226306 |
| SRT | T-46460 | Splenic Artery | 22083002 | C0037996 |
| SRT | T-46510 | Superior Mesenteric Artery | 42258001 | C0162861 |

CID 12113 Abdominal Veins (Lateral)

Type: Extensible
Version: 20030327

Table CID 12113. Abdominal Veins (Lateral)

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | T-48920 | Common iliac vein | 46027005 | C0226758 |
| SRT | T-48820 | Gastric vein | 110568007 | C0750610 |
| SRT | G-0370 | Ileal vein | 397439002 | C1301431 |
| SRT | T-48780 | Ovarian vein | 976004 | C0226720 |
| SRT | T-48770 | Testicular Vein | 31688004 | C0226718 |
| SRT | G-035E | First Lumbar Artery | 397407009 | C1301402 |
| SRT | G-035F | Second Lumbar Artery | 397408004 | C1301403 |
| SRT | G-0360 | Third Lumbar Artery | 397409007 | C1301404 |
| SRT | G-0361 | Fourth Lumbar Artery | 397410002 | C1301405 |
| SRT | G-0362 | Fifth Lumbar Artery | 397411003 | C1301406 |
| SRT | G-0363 | Sixth Lumbar Artery | 397412005 | C1301407 |

CID 12114 Abdominal Veins (Unilateral)

Type: Extensible
Version: 20030327

Table CID 12114. Abdominal Veins (Unilateral)

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------|----------------------|------------------------|
| SRT | T-48720 | Hepatic Vein | 8993003 | C0019155 |
| SRT | G-036D | Inferior Right Hepatic Vein | 397425002 | C1301418 |
| SRT | T-48727 | Left Hepatic Vein | 273202007 | C0226708 |
| SRT | T-48726 | Middle Hepatic Vein | 273099000 | C0226707 |
| SRT | T-48725 | Right Hepatic Vein | 272998002 | C0226706 |
| SRT | T-48810 | Portal Vein | 32764006 | C0032718 |
| SRT | T-4881F | Left Main Branch of Portal Vein | 304374005 | C0582255 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | T-4882A | Right Main Branch of Portal Vein | 304375006 | C0582256 |
| SRT | T-48910 | Inferior Mesenteric Vein | 32859001 | C0226754 |
| SRT | T-48710 | Inferior Vena Cava | 64131007 | C0042458 |
| SRT | T-48890 | Splenic Vein | 35819009 | C0038001 |
| SRT | T-48840 | Superior Mesenteric Vein | 90771006 | C0226742 |
| SRT | G-036C | Transjugular Intrahepatic Portosystemic Shunt | 397423009 | C1301416 |
| SRT | T-48817 | Umbilical Vein | 61660003 | C0226734 |

CID 12115 Renal Vessels

Type: Extensible
Version: 20030327

Table CID 12115. Renal Vessels

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | T-46600 | Renal Artery | 2841007 | C0035065 |
| SRT | G-035C | Hilar Artery | 397405001 | C1275669 |
| SRT | T-46659 | Segmental Artery | 120234003 | C1267338 |
| SRT | T-4667C | Lobar Artery | 274060004 | C0226346 |
| SRT | T-4668A | Arcuate Artery of the Kidney | 274231001 | C0226348 |
| SRT | T-4667D | Interlobar Artery of Kidney | 274143007 | C0226347 |
| SRT | T-46640 | Accessory Renal Artery | 85383006 | C0226335 |
| SRT | T-46668 | Perforating Artery of Kidney | 15763003 | C0226344 |
| SRT | T-48740 | Renal Vein | 56400007 | C0035092 |

CID 12116 Vessel Segment Modifiers

This context group is the set of modifiers that specify the position along a vessel segment.

Type: Extensible
Version: 20050110

Table CID 12116. Vessel Segment Modifiers

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|----------------------|------------------------|
| SRT | G-A119 | Distal | 46053002 | C0205108 |
| SRT | G-A188 | Mid-longitudinal | 103342007 | C0522490 |
| SRT | G-036A | Origin of vessel | 397421006 | C1301415 |
| SRT | G-A118 | Proximal | 40415009 | C0205107 |
| SRT | R-1025B | Dilated portion of segment | 413996005 | C1531687 |

CID 12117 Vessel Branch Modifiers

This context group is the set of modifiers to specify a particular vessel segment or branch.

Type: Extensible
Version: 20160314

Table CID 12117. Vessel Branch Modifiers

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | G-035D | Collateral branch of vessel | 397406000 | C1275670 |
| SRT | R-4094A | Inferior | 261089000 | C0542339 |
| SRT | G-A104 | Lateral | 49370004 | C0205093 |
| SRT | G-A101 | Left | 7771000 | C0205091 |
| SRT | G-A332 | Main | 63161005 | C0205225 |
| SRT | R-404D5 | Medial | 255561001 | C0205098 |
| SRT | G-A100 | Right | 24028007 | C0205090 |
| SRT | R-42191 | Superior | 264217000 | C1282910 |

CID 12118 Measurement Orientation

Type: Extensible
Version: 20110125

Table CID 12118. Measurement Orientation

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------|----------------------|------------------------|
| DCM | 122675 | Anterior-Posterior | | |
| SRT | G-A117 | Transverse | 62824007 | C0205106 |
| SRT | G-A143 | Longitudinal | 38717003 | C0205127 |

CID 12119 Vascular Ultrasound Property

Type: Extensible
Version: 20030327

Table CID 12119. Vascular Ultrasound Property

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 12120 "Blood Velocity Measurements by Ultrasound" | | |
| Include CID 12121 "Vascular Indices and Ratios" | | |
| Include CID 12122 "Other Vascular Properties" | | |

CID 12120 Blood Velocity Measurements by Ultrasound

Type: Extensible
Version: 20030327

Table CID 12120. Blood Velocity Measurements by Ultrasound

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|----------------------------|------------------------|
| LN | 11653-3 | End Diastolic Velocity | C0551772 |
| LN | 11665-7 | Minimum Diastolic Velocity | C0551784 |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|------------------------|
| LN | 11726-7 | Peak Systolic Velocity | C0551845 |
| LN | 20352-1 | Time averaged mean velocity | C0803167 |
| LN | 11692-1 | Time averaged peak velocity | C0551811 |

CID 12121 Vascular Indices and Ratios

Type: Extensible
Version: 20050110

Table CID 12121. Vascular Indices and Ratios

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| LN | 20167-3 | Acceleration Index | | C0802982 |
| SRT | R-101BA | Lumen Area Stenosis | 408714007 | C1443264 |
| SRT | R-101BB | Lumen Diameter Stenosis | 408715008 | C1443265 |
| LN | 12008-9 | Pulsatility Index | | C0552113 |
| LN | 12023-8 | Resistivity Index | | C0552128 |
| LN | 12144-2 | Systolic to Diastolic Velocity Ratio | | C0552246 |
| LN | 33867-3 | Velocity ratio | | C1316330 |

Note

This Context Group formerly included SNOMED codes G-0371 and G-0372, which have been replaced by R-101BA and R-101BB, respectively. See Annex J.

CID 12122 Other Vascular Properties

Type: Extensible
Version: 20050110

Table CID 12122. Other Vascular Properties

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|
| LN | 20168-1 | Acceleration Time | | C0802983 |
| LN | 20217-6 | Deceleration Time | | C0803032 |
| SRT | G-0364 | Vessel lumen diameter | 397413000 | C1301408 |
| SRT | R-1025C | Vessel Intimal Diameter | 415815009 | C1532860 |
| SRT | R-1025D | Vessel Intimal Cross-Sectional Area | 415814008 | C1532859 |
| SRT | G-0365 | Vessel outside diameter | 397414006 | C1301409 |
| SRT | G-0366 | Vessel lumen cross-sectional area | 397415007 | C1301410 |
| LN | 33878-0 | Volume flow | | C1316341 |
| SRT | R-1025E | Vessel depth from surface | 413975003 | C1531671 |
| LN | 20247-3 | Peak Gradient | | C0803062 |
| LN | 20256-4 | Mean Gradient | | C0803071 |
| SRT | R-1025F | Length of Segment | 414599003 | C1532132 |

CID 12123 Carotid Ratios

Type: Extensible
Version: 20030327

Table CID 12123. Carotid Ratios

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|------------------------|
| LN | 33868-1 | ICA/CCA velocity ratio | C1316331 |

CID 12124 Renal Ratios

Type: Extensible
Version: 20030327

Table CID 12124. Renal Ratios

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------------|------------------------|
| LN | 33869-9 | Renal Artery/Aorta velocity ratio | C1316332 |

CID 12140 Pelvic Vasculature Anatomical Location

Type: Extensible
Version: 20040322

Table CID 12140. Pelvic Vasculature Anatomical Location

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | T-F1810 | Umbilical Artery | 50536004 | C0041632 |
| SRT | T-F1820 | Umbilical Vein | 13576009 | C0041637 |
| SRT | T-46980 | Ovarian Artery | 12052000 | C0226411 |
| SRT | T-48780 | Ovarian Vein | 976004 | C0226720 |
| SRT | T-46820 | Uterine Artery | 91079009 | C0226378 |
| SRT | T-49010 | Uterine Vein | 60028002 | C0226787 |
| SRT | T-F1412 | Vitelline Artery of Placenta | 256779006 | C0230979 |
| SRT | T-F1413 | Vitelline Vein of Placenta | 256875007 | C0230980 |
| SRT | T-46710 | Common Iliac Artery | 73634005 | C1261084 |

CID 12141 Fetal Vasculature Anatomical Location

Type: Extensible
Version: 20040322

Table CID 12141. Fetal Vasculature Anatomical Location

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | T-42000 | Aorta | 15825003 | C0003483 |
| SRT | T-D0765 | Descending Aorta | 281130003 | C0011666 |
| SRT | T-45600 | Middle Cerebral Artery | 17232002 | C0149566 |
| SRT | T-48581 | Pulmonary Vein | 122972007 | C0034090 |
| SRT | T-44000 | Pulmonary Artery | 81040000 | C0034052 |

CID 12200 Echocardiography Left Ventricle

Type: Extensible
Version: 20030918

Table CID 12200. Echocardiography Left Ventricle

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| Include CID 12220 "Echocardiography Common Measurements" | | |
| Include CID 12201 "Left Ventricle Linear" | | |
| Include CID 12240 "Left Ventricle Area" | | |
| Include CID 12202 "Left Ventricle Volume" | | |
| Include CID 12222 "Orifice Flow Properties" | | |
| Include CID 12203 "Left Ventricle Other" | | |
| Include CID 12239 "Cardiac Output Properties" | | |

CID 12201 Left Ventricle Linear

Type: Extensible
Version: 20030918

Table CID 12201. Left Ventricle Linear

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| LN | 29436-3 | Left Ventricle Internal End Diastolic Dimension | | C0944887 |
| LN | 29438-9 | Left Ventricle Internal Systolic Dimension | | C0944889 |
| LN | 18051-3 | Left Ventricular Fractional Shortening | | C0801100 |
| LN | 18154-5 | Interventricular Septum Diastolic Thickness | | C0801203 |
| LN | 18155-2 | Interventricular Septum to Posterior Wall Thickness Ratio | | C0801204 |
| LN | 18054-7 | Interventricular Septum % Thickening | | C0801103 |
| LN | 18158-6 | Interventricular Septum Systolic Thickness | | C0801207 |
| LN | 18053-9 | Left Ventricle Posterior Wall % Thickening | | C0801102 |
| LN | 18077-8 | Left Ventricle diastolic major axis | | C0801126 |
| LN | 18076-0 | Left Ventricle systolic major axis | | C0801125 |
| LN | 18156-0 | Left Ventricle Posterior Wall Systolic Thickness | | C0801205 |
| LN | 18152-9 | Left Ventricle Posterior Wall Diastolic Thickness | | C0801201 |
| SRT | G-0377 | Left Ventricle Semi-major Axis Diastolic Dimension | 399063007 | C1302188 |
| SRT | G-0378 | Left Ventricle Truncated Semi-major Axis Diastolic Dimension | 399309003 | C1302315 |

CID 12202 Left Ventricle Volume

Type: Extensible
Version: 20030918

Table CID 12202. Left Ventricle Volume

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--|------------------------|
| LN | 18026-5 | Left Ventricular End Diastolic Volume | C0801075 |
| LN | 18148-7 | Left Ventricular End Systolic Volume | C0801197 |
| LN | 18043-0 | Left Ventricular Ejection Fraction by US | C0801092 |

CID 12203 Left Ventricle Other

Type: Extensible
Version: 20030918

Table CID 12203. Left Ventricle Other

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| LN | 18087-7 | Left Ventricle Mass | | C0801136 |
| LN | 18071-1 | Left Ventricular Isovolumic Relaxation Time | | C0801120 |
| SRT | G-037E | Left Ventricular Isovolumic Contraction Time | 399051002 | C1302184 |
| SRT | G-037A | Left Ventricular Peak Early Diastolic Tissue Velocity | 399133000 | C1302218 |
| SRT | G-037B | Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave | 399140004 | C1275825 |
| SRT | G-037C | LV Peak Diastolic Tissue Velocity During Atrial Systole | 399007006 | C1275803 |
| SRT | G-037D | Left Ventricular Peak Systolic Tissue Velocity | 399167005 | C1302235 |
| SRT | G-037F | Left Ventricular Index of Myocardial Performance | 399266005 | C1302287 |

CID 12204 Echocardiography Right Ventricle

Type: Extensible
Version: 20080623

Table CID 12204. Echocardiography Right Ventricle

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--|----------------------|------------------------|
| Include CID 12220 "Echocardiography Common Measurements" | | | | |
| Include CID 12222 "Orifice Flow Properties" | | | | |
| SRT | F-04FD8 | RV Stroke Volume | 429483009 | C1998360 |
| SRT | F-04FA5 | RV Cardiac Output | 428628004 | C1998060 |
| SRT | F-04F84 | RV Cardiac Index | 427990004 | C1998235 |
| SRT | F-04FE5 | RV Stroke Index | 429619008 | C1997465 |
| LN | 20304-2 | Right Ventricular Internal Diastolic Dimension | | C0803119 |
| LN | 20305-9 | Right Ventricular Internal Systolic Dimension | | C0803120 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | G-0381 | Right Ventricular Index of Myocardial Performance | 399154007 | C1302228 |
| SRT | G-0380 | Right Ventricular Peak Systolic Pressure | 399023006 | C1302173 |
| LN | 18153-7 | Right Ventricular Anterior Wall Diastolic Thickness | | C0801202 |
| LN | 18157-8 | Right Ventricular Anterior Wall Systolic Thickness | | C0801206 |

CID 12205 Echocardiography Left Atrium

Type: Extensible
Version: 20030918

Table CID 12205. Echocardiography Left Atrium

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|---|----------------------|------------------------|
| Include CID 12220 "Echocardiography Common Measurements" | | | | |
| LN | 29469-4 | Left Atrium Antero-posterior Systolic Dimension | | C0944917 |
| LN | 17985-3 | Left Atrium to Aortic Root Ratio | | C0801035 |
| LN | 29486-8 | Left Atrial Appendage Peak Velocity | | C0945756 |
| LN | 17977-0 | Left Atrium Area A4C view | | C0801027 |
| SRT | G-0383 | Left Atrium Systolic Volume | 399235004 | C1302269 |

CID 12206 Echocardiography Right Atrium

Type: Extensible
Version: 20030918

Table CID 12206. Echocardiography Right Atrium

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--|------------|--------------------------------|------------------------|
| Include CID 12220 "Echocardiography Common Measurements" | | | |
| LN | 18070-3 | Right Atrium Systolic Pressure | C0801119 |
| LN | 17988-7 | Right Atrium Area A4C view | C0801038 |

CID 12207 Echocardiography Mitral Valve

Type: Extensible
Version: 20030918

Table CID 12207. Echocardiography Mitral Valve

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| Include CID 12220 "Echocardiography Common Measurements" | | | | |
| Include CID 12222 "Orifice Flow Properties" | | | | |
| Include CID 12239 "Cardiac Output Properties" | | | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| LN | 17978-8 | Mitral Valve A-Wave Peak Velocity | | C0801028 |
| LN | 18037-2 | Mitral Valve E-Wave Peak Velocity | | C0801086 |
| LN | 18038-0 | Mitral Valve E to A Ratio | | C0801087 |
| SRT | G-0386 | Mitral Valve AT/DT Ratio | 399062002 | C1275813 |
| SRT | G-0384 | Mitral Valve E-Wave Deceleration Time | 399354002 | C1302337 |
| LN | 18040-6 | Mitral Valve E-F Slope by M-Mode | | C0801089 |
| LN | 18036-4 | Mitral Valve EPSS, E wave | | C0801085 |
| SRT | G-0385 | Mitral Valve A-Wave Duration | 399229004 | C1302265 |
| LN | 18057-0 | Mitral Valve Diastolic Peak Instantaneous Gradient | | C0801106 |
| SRT | G-0387 | Mitral Valve Closure to Opening Time | 399104001 | C1302204 |
| LN | 18035-6 | Mitral Regurgitation dP/dt derived from Mitral Reg. velocity | | C0801084 |

Note

This Context Group includes measurements of the left ventricle only. For right ventricle measurements, see CID 12204 "Echocardiography Right Ventricle".

CID 12208 Echocardiography Tricuspid Valve

Type: Extensible
Version: 20030918

Table CID 12208. Echocardiography Tricuspid Valve

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|---|----------------------|------------------------|
| Include CID 12220 "Echocardiography Common Measurements" | | | | |
| Include CID 12222 "Orifice Flow Properties" | | | | |
| LN | 18031-5 | Tricuspid Valve E Wave Peak Velocity | | C0801080 |
| LN | 18030-7 | Tricuspid Valve A Wave Peak Velocity | | C0801079 |
| LN | 18039-8 | Tricuspid Valve E to A Ratio | | C0801088 |
| LN | 20296-0 | Time from Q wave to Tricuspid Valve Opens | | C0803111 |
| SRT | G-0389 | Tricuspid Valve Closure to Opening Time | 399282006 | C1302297 |
| LN | 18034-9 | Tricuspid Regurgitation dP/dt | | C0801083 |

CID 12209 Echocardiography Pulmonic Valve

Type: Extensible
Version: 20030918

Table CID 12209. Echocardiography Pulmonic Valve

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--------------|----------------------|------------------------|
| Include CID 12220 "Echocardiography Common Measurements" | | | | |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--|----------------------|------------------------|
| <i>Include CID 12222 "Orifice Flow Properties"</i> | | | | |
| LN | 18096-8 | Pulmonic Valve Area by continuity | | C0801145 |
| LN | 18042-2 | Pulmonic Valve Ejection Time | | C0801091 |
| SRT | G-0388 | Ratio of Pulmonic Valve Acceleration Time to Ejection Time | 399238002 | C1275839 |
| LN | 20295-2 | Time from Q wave to Pulmonic Valve Closes | | C0803110 |

CID 12210 Echocardiography Pulmonary Artery

Type: Extensible
Version: 20030918

Table CID 12210. Echocardiography Pulmonary Artery

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|-------------------------------------|----------------------|------------------------|
| <i>Include CID 12220 "Echocardiography Common Measurements"</i> | | | | |
| LN | 18020-8 | Main Pulmonary Artery Diameter | | C0801070 |
| LN | 18021-6 | Right Pulmonary Artery Diameter | | C0801071 |
| LN | 18019-0 | Left Pulmonary Artery Diameter | | C0801069 |
| SRT | G-038A | Main Pulmonary Artery Peak Velocity | 399048009 | C1302183 |

CID 12211 Echocardiography Aortic Valve

Type: Extensible
Version: 20030918

Table CID 12211. Echocardiography Aortic Valve

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--|----------------------|------------------------|
| <i>Include CID 12220 "Echocardiography Common Measurements"</i> | | | | |
| <i>Include CID 12222 "Orifice Flow Properties"</i> | | | | |
| LN | 17996-0 | Aortic Valve Cusp Separation | | C0801046 |
| LN | 18041-4 | Aortic Valve Ejection Time | | C0801090 |
| SRT | G-0382 | Ratio of Aortic Valve Acceleration Time to Ejection Time | 399058008 | C1275811 |

CID 12212 Echocardiography Aorta

Type: Extensible
Version: 20030918

Table CID 12212. Echocardiography Aorta

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|---|------------|----------------------|------------------------|
| <i>Include CID 12220 "Echocardiography Common Measurements"</i> | | | |
| LN | 18015-8 | Aortic Root Diameter | C0801065 |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|---|------------------------|
| LN | 18011-7 | Aortic Arch Diameter | C0801061 |
| LN | 18012-5 | Ascending Aortic Diameter | C0801062 |
| LN | 18014-1 | Aortic Isthmus Diameter | C0801064 |
| LN | 18013-3 | Descending Aortic Diameter | C0801063 |
| LN | 17995-2 | Thoracic Aorta Coarctation Systolic Peak Instantaneous Gradient | C0801045 |
| LN | 29460-3 | Thoracic Aorta Coarctation Systolic Peak Velocity | C0944908 |

CID 12214 Echocardiography Pulmonary Veins

Type: Extensible
Version: 20030918

Table CID 12214. Echocardiography Pulmonary Veins

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|--|----------------------|------------------------|
| Include CID 12220 "Echocardiography Common Measurements" | | | | |
| LN | 29450-4 | Pulmonary Vein Systolic Peak Velocity | | C0945752 |
| LN | 29451-2 | Pulmonary Vein Diastolic Peak Velocity | | C0944900 |
| LN | 29452-0 | Pulmonary Vein Systolic to Diastolic Ratio | | C0944901 |
| LN | 29453-8 | Pulmonary Vein Atrial Contraction Reversal Peak Velocity | | C0944902 |
| SRT | G-038B | Pulmonary Vein A-Wave Duration | 399070007 | C1302191 |
| SRT | G-038D | Pulmonary Vein D-Wave Velocity Time Integral | 399039004 | C1302180 |
| SRT | G-038C | Pulmonary Vein S-Wave Velocity Time Integral | 399267001 | C1302288 |

CID 12215 Echocardiography Vena Cavae

Type: Extensible
Version: 20030918

Table CID 12215. Echocardiography Vena Cavae

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--|------------|-------------------------------|------------------------|
| Include CID 12220 "Echocardiography Common Measurements" | | | |
| LN | 18006-7 | Inferior Vena Cava Diameter | C0801056 |
| LN | 18050-5 | Inferior Vena Cava % Collapse | C0801099 |

CID 12216 Echocardiography Hepatic Veins

Type: Extensible
Version: 20030918

Table CID 12216. Echocardiography Hepatic Veins

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|---|------------|--|------------------------|
| <i>Include CID 12220 "Echocardiography Common Measurements"</i> | | | |
| LN | 29471-0 | Hepatic Vein Systolic Peak Velocity | C0944919 |
| LN | 29472-8 | Hepatic Vein Diastolic Peak Velocity | C0944920 |
| LN | 29473-6 | Hepatic Vein Systolic to Diastolic Ratio | C0944921 |
| LN | 29474-4 | Hepatic Vein Atrial Contraction Reversal Peak Velocity | C0944922 |

CID 12217 Echocardiography Cardiac Shunt

Type: Extensible
Version: 20030918

Table CID 12217. Echocardiography Cardiac Shunt

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|---|------------|--|------------------------|
| <i>Include CID 12220 "Echocardiography Common Measurements"</i> | | | |
| LN | 29462-9 | Pulmonary-to-Systemic Shunt Flow Ratio | C0944910 |

CID 12218 Echocardiography Congenital

Type: Extensible
Version: 20100317

Table CID 12218. Echocardiography Congenital

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 12220 "Echocardiography Common Measurements"</i> | | |
| <i>Include CID 12222 "Orifice Flow Properties"</i> | | |
| <i>Include CID 12250 "Cardiac Ultrasound Common Linear Measurements"</i> | | |

CID 12219 Pulmonary Vein Modifiers

Type: Extensible
Version: 20030918

Table CID 12219. Pulmonary Vein Modifiers

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------|----------------------|------------------------|
| SRT | R-404A0 | Right Upper Segment | 255499006 | C0442064 |
| SRT | R-4049E | Right Lower Segment | 255496004 | C0442067 |
| SRT | R-40491 | Left Upper Segment | 255482005 | C0442065 |
| SRT | R-4214B | Left Lower Segment | 264068005 | C0442068 |

CID 12220 Echocardiography Common Measurements

Type: Extensible
Version: 20030918

Table CID 12220. Echocardiography Common Measurements

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--------------|------------------------|
| LN | 8867-4 | Heart rate | C0488794 |

CID 12221 Flow Direction

Type: Extensible
Version: 20100317

Table CID 12221. Flow Direction

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | R-42047 | Antegrade Flow | 263677008 | C0589502 |
| SRT | R-42E61 | Retrograde Flow | 312004007 | C0439784 |
| SRT | G-0367 | Regurgitant Flow | 397417004 | C1301411 |
| SRT | F-32330 | Left to right cardiovascular shunt | 66130006 | C0428870 |
| SRT | F-32340 | Right to left cardiovascular shunt | 79692001 | C0428871 |

Note

In a prior version of this Context Group, the code R-42E61 was specified for Regurgitant Flow. This has been corrected to be Retrograde Flow. Some applications might continue to send codeR-42E61 instead ofG-0367 for Regurgitant Flow.

CID 12222 Orifice Flow Properties

Type: Extensible
Version: 20100317

Table CID 12222. Orifice Flow Properties

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| LN | 33878-0 | Volume Flow | | C1316341 |
| LN | 34141-2 | Peak Instantaneous Flow Rate | | C1316604 |
| SRT | G-038E | Cardiovascular Orifice Area | 399367004 | C1302344 |
| SRT | G-038F | Cardiovascular Orifice Diameter | 399027007 | C1302176 |
| SRT | G-0390 | Regurgitant Fraction | 399301000 | C1302309 |
| LN | 11653-3 | End Diastolic Velocity | | C0551772 |
| LN | 11726-7 | Peak Systolic Velocity | | C0551845 |
| LN | 20352-1 | Time Averaged Mean Velocity | | C0803167 |
| LN | 11692-1 | Time Averaged Peak Velocity | | C0551811 |
| LN | 20247-3 | Peak Gradient | | C0803062 |
| LN | 20256-4 | Mean Gradient | | C0803071 |
| LN | 20354-7 | Velocity Time Integral | | C0803169 |
| LN | 20280-4 | Pressure Half-Time | | C0803095 |
| LN | 20168-1 | Acceleration Time | | C0802983 |
| LN | 20217-6 | Deceleration Time | | C0803032 |
| LN | 20216-8 | Deceleration Slope | | C0803031 |
| LN | 12144-2 | Systolic to Diastolic Velocity Ratio | | C0552246 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| LN | 59102-4 | Flow Radius | | C2923437 |
| LN | 59130-5 | Alias velocity | | C2923486 |
| LN | 20167-3 | Acceleration Slope | | C0802982 |
| LN | 59127-1 | D-E Slope | | C2923482 |
| LN | 59128-9 | E-F Slope | | C2923484 |
| LN | 59103-2 | A-C Interval | | C2923439 |
| LN | 59104-0 | Peak E wave/Peak A wave by US | | C2923440 |
| LN | 59106-5 | Stenosis Peak Gradient | | C2923443 |
| LN | 59107-3 | Stenosis Peak Velocity | | C2923444 |
| LN | 59079-4 | Peak Reversal Velocity during Atrial Contraction | | C2923402 |
| LN | 59080-2 | E-Wave Peak Velocity | | C2923404 |
| LN | 59081-0 | A-Wave Peak Velocity | | C2923405 |
| LN | 59111-5 | E Velocity to Annulus E Velocity Ratio | | C2923452 |
| LN | 59115-6 | Velocity of Flow Propagation | | C2923460 |

Note

1. In a prior version of this Context Group, the code 11726-7 was specified for Peak Velocity. This has been corrected to be Peak Systolic Velocity. Some applications might continue to send code 11726-7 instead of 20351-3 for Peak Velocity.
2. In a prior version of this Context Group, the code 20352-1 was specified for Mean Velocity. This has been corrected to be Time Averaged Mean Velocity. Some applications might continue to send code 20352-1 instead of 11692-1 for Time Averaged Peak Velocity.

CID 12223 Echocardiography Stroke Volume Origin

Type: Extensible
Version: 20030918

Table CID 12223. Echocardiography Stroke Volume Origin

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| SRT | T-32600 | Left Ventricle | 87878005 | C0225897 |
| SRT | T-32650 | Left Ventricle Outflow Tract | 13418002 | C0225912 |
| SRT | T-32550 | Right Ventricle Outflow Tract | 44627009 | C0225892 |
| SRT | T-35300 | Mitral Valve | 91134007 | C0026264 |
| SRT | T-42000 | Aorta | 15825003 | C0003483 |

CID 12224 Ultrasound Image Modes

Type: Extensible
Version: 20100317

Table CID 12224. Ultrasound Image Modes

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-03A2 | 2D mode | 399064001 | C1302189 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | R-409E2 | Doppler Color Flow | 261197005 | C0475380 |
| SRT | G-0394 | M mode | 399155008 | C1302229 |
| SRT | R-409E4 | Doppler Pulsed | 261199008 | C0242846 |
| SRT | R-409E3 | Doppler Continuous Wave | 261198000 | C0444723 |
| SRT | P0-02241 | Power Doppler | 425704008 | C1960437 |
| SRT | P0-02242 | 3D mode | 426865009 | C1960438 |
| SRT | P5-B0128 | Tissue Doppler Imaging | 439858009 | C2585212 |

CID 12226 Echocardiography Image View

Type: Extensible
Version: 20100317

Table CID 12226. Echocardiography Image View

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | G-A19B | Apical two chamber | 399232001 | C1302267 |
| SRT | G-A19C | Apical four chamber | 399214001 | C1302256 |
| SRT | G-0395 | Apical long axis | 399339008 | C1302329 |
| SRT | G-0396 | Parasternal long axis | 399139001 | C1302222 |
| SRT | G-0577 | Parasternal long axis view of the RV inflow tract | 443082005 | C2733536 |
| SRT | G-0578 | Parasternal long axis view of the RV outflow tract | 443083000 | C2733537 |
| SRT | G-0397 | Parasternal short axis | 399306005 | C1302312 |
| SRT | G-0398 | Parasternal short axis at the aortic valve level | 399239005 | C1302271 |
| SRT | G-0399 | Parasternal short axis at the level of the mitral chords | 399371001 | C1302348 |
| SRT | G-039A | Parasternal short axis at the Mitral Valve level | 399036006 | C1302178 |
| SRT | G-039B | Parasternal short axis at the Papillary Muscle level | 399271003 | C1302289 |
| SRT | G-039C | Right Ventricular Inflow Tract View | 398998003 | C1275800 |
| SRT | G-039D | Right Ventricular Outflow Tract View | 399195005 | C1275831 |
| SRT | G-039E | Subcostal long axis | 399310008 | C1302316 |
| SRT | G-039F | Subcostal short axis | 399200001 | C1302251 |
| SRT | G-03A0 | Suprasternal long axis | 399106004 | C1302206 |
| SRT | G-03A1 | Suprasternal short axis | 399145009 | C1302224 |
| SRT | R-40B0E | Transesophageal short axis view | 443698002 | C2733008 |
| SRT | R-40AFF | Subcostal view of cardiac outlets directed anteriorly | 443100003 | C2732944 |
| SRT | G-0579 | Subcostal short axis view at papillary muscle level | 443160001 | C2732745 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | G-057B | Subcostal short axis view at mitral valve level | 443499004 | C2732947 |
| SRT | G-057E | Subcostal short axis view at aortic valve level | 443609003 | C2733524 |
| SRT | G-057C | Subcostal short axis view at venous inflow level | 443500008 | C2733525 |
| SRT | R-40B0A | Subcostal oblique coronal view | 443640005 | C2733526 |
| SRT | R-40B00 | Suprasternal coronal view | 443162009 | C2733098 |
| SRT | R-40B01 | Suprasternal sagittal view | 443163004 | C2733099 |
| SRT | G-057D | Suprasternal long axis view of aortic arch | 443562002 | C2732456 |

CID 12227 Echocardiography Measurement Method

Type: Extensible
Version: 20161109

Table CID 12227. Echocardiography Measurement Method

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|-------------------|
| Include CID 12228 "Echocardiography Volume Methods" | | |
| Include CID 12229 "Echocardiography Area Methods" | | |
| Include CID 12230 "Gradient Methods" | | |
| Include CID 12231 "Volume Flow Methods" | | |
| Include CID 12232 "Myocardium Mass Methods" | | |
| DCM | 125316 | Directly measured |

CID 12228 Echocardiography Volume Methods

Type: Extensible
Version: 20100317

Table CID 12228. Echocardiography Volume Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------|
| DCM | 125204 | Area-Length Biplane |
| DCM | 125205 | Area-Length Single Plane |
| DCM | 125211 | Biplane Ellipse |
| DCM | 125226 | Single Plane Ellipse |
| DCM | 125206 | Cube Method |
| DCM | 125207 | Method of Disks, Biplane |
| DCM | 125208 | Method of Disks, Single Plane |
| DCM | 125209 | Teichholz |
| DCM | 125227 | Modified Simpson |
| DCM | 125228 | Bullet Method |

CID 12229 Echocardiography Area Methods

Type: Extensible

Version: 20030918

Table CID 12229. Echocardiography Area Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 125210 | Area by Pressure Half-Time |
| DCM | 125212 | Continuity Equation |
| DCM | 125213 | Continuity Equation by Mean Velocity |
| DCM | 125214 | Continuity Equation by Peak Velocity |
| DCM | 125215 | Continuity Equation by Velocity Time Integral |
| DCM | 125216 | Proximal Isovelocity Surface Area |
| DCM | 125220 | Planimetry |

CID 12230 Gradient Methods

Type: Extensible
Version: 20030918

Table CID 12230. Gradient Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|----------------------|
| DCM | 125217 | Full Bernoulli |
| DCM | 125218 | Simplified Bernoulli |

CID 12231 Volume Flow Methods

Type: Extensible
Version: 20030918

Table CID 12231. Volume Flow Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-----------------------------------|
| DCM | 125219 | Doppler Volume Flow |
| DCM | 125216 | Proximal Isovelocity Surface Area |

CID 12232 Myocardium Mass Methods

Type: Extensible
Version: 20100317

Table CID 12232. Myocardium Mass Methods

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 125221 | Left Ventricle Mass by M-mode |
| DCM | 125222 | Left Ventricle Mass by Truncated Ellipse |
| DCM | 125270 | Left Ventricle Mass by Area Length |
| DCM | 125271 | Left Ventricle Mass by M-mode - adjusted by Height |
| DCM | 125272 | Left Ventricle Mass by Truncated Ellipse - adjusted by Height |
| DCM | 125273 | Left Ventricle Mass by Area Length - adjusted by Height |

CID 12233 Cardiac Phase

Type: Extensible

Version: 20160314

Table CID 12233. Cardiac Phase

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| SRT | F-32020 | Systole | 111973004 | C0039155 |
| SRT | F-32010 | Diastole | 90892000 | C0012000 |
| SRT | R-FAB5C | End Diastole | 416190007 | C1562146 |
| SRT | R-FAB5B | End Systole | 416430001 | C1563001 |
| SRT | R-40B1B | Early Diastole | 444389002 | C2732387 |
| SRT | F-32021 | Peak Systolic | 255236000 | C0442710 |
| SRT | F-32030 | Atrial Systole | 59972007 | C0520865 |
| SRT | F-32040 | Ventricular Systole | 8997002 | C0520866 |
| SRT | R-40B12 | Ventricular Isovolumic Contraction | 444379001 | C2732703 |
| SRT | R-40B11 | Ventricular Ejection | 444371003 | C2733340 |
| SRT | R-40B10 | Ventricular Isovolumic Relaxation | 444361000 | C2733323 |
| SRT | R-40B1C | Diastolic Rapid Inflow | 444392003 | C2732785 |
| SRT | R-40B21 | Diastasis | 444469002 | C2733177 |

CID 12234 Respiration State

Type: Extensible
Version: 20030918

Table CID 12234. Respiration State

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | F-20010 | Inspiration | 14910006 | C0004048 |
| SRT | F-20020 | Expiration | 58322009 | C0231800 |

CID 12235 Mitral Valve Anatomic Sites

Type: Extensible
Version: 20040614

Table CID 12235. Mitral Valve Anatomic Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------|----------------------|------------------------|
| SRT | G-0391 | Medial Mitral Annulus | 399093001 | C1302199 |
| SRT | G-0392 | Lateral Mitral Annulus | 399086000 | C1302198 |
| SRT | T-35313 | Mitral Annulus | 279174006 | C1305163 |

CID 12236 Echo Anatomic Sites

Type: Extensible
Version: 20110818

Table CID 12236. Echo Anatomic Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|-----------------------------|----------------------|------------------------|
| <i>Include CID 12235 "Mitral Valve Anatomic Sites"</i> | | | | |
| <i>Include CID 12223 "Echocardiography Stroke Volume Origin"</i> | | | | |
| <i>Include CID 12241 "Tricuspid Valve Finding Sites"</i> | | | | |
| <i>Include CID 12242 "Aortic Valve Finding Sites"</i> | | | | |
| <i>Include CID 12243 "Left Ventricle Finding Sites"</i> | | | | |
| <i>Include CID 12244 "Congenital Finding Sites"</i> | | | | |
| SRT | D4-32030 | Thoracic Aortic Coarctation | 253678000 | C0345086 |
| SRT | D3-90008 | Pericardial effusion | 373945007 | C0031039 |

CID 12237 Echocardiography Anatomic Site Modifiers

Type: Extensible Version: 20030918

Type: Extensible
Version: 20030918

Table CID 12237. Echocardiography Anatomic Site Modifiers

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 12219 "Pulmonary Vein Modifiers"</i> | | |

CID 12238 Wall Motion Scoring Schemes

Type: Extensible
Version: 20050321

Table CID 12238. Wall Motion Scoring Schemes

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| DCM | 125223 | 4 Point Segment Finding Scale |
| DCM | 125224 | 5 Point Segment Finding Scale |
| DCM | 125225 | 5 Point Segment Finding Scale With Graded Hypokinesis |

CID 12239 Cardiac Output Properties

Type: Extensible
Version: 20030918

Table CID 12239. Cardiac Output Properties

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Equivalent LOINC Code Value |
|--------------------------|------------|----------------|----------------------|------------------------|-----------------------------|
| SRT | F-32120 | Stroke Volume | 90096001 | C0038455 | 20562-5 |
| SRT | F-32100 | Cardiac Output | 82799009 | C0007165 | 8741-1 |
| SRT | F-32110 | Cardiac Index | 54993008 | C0428776 | |
| SRT | F-00078 | Stroke Index | 277381004 | C0456712 | |

CID 12240 Left Ventricle Area

Type: Extensible
Version: 20030918

Table CID 12240. Left Ventricle Area

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | G-0374 | Left Ventricular Systolic Area | 399030000 | C1275805 |
| SRT | G-0375 | Left Ventricular Diastolic Area | 399109006 | C1275819 |
| SRT | G-0376 | Left Ventricular Fractional Area Change | 399287000 | C1302301 |
| SRT | G-0379 | Left Ventricle Epicardial Diastolic Area, psax pap view | 399293008 | C1302305 |

CID 12241 Tricuspid Valve Finding Sites

Type: Extensible
Version: 20040614

Table CID 12241. Tricuspid Valve Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | T-35111 | Tricuspid Annulus | 279170002 | C1305155 |

CID 12242 Aortic Valve Finding Sites

Type: Extensible
Version: 20040614

Table CID 12242. Aortic Valve Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| SRT | T-35410 | Aortic Valve Ring | 77583004 | C0225957 |

CID 12243 Left Ventricle Finding Sites

Type: Extensible
Version: 20040614

Table CID 12243. Left Ventricle Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | T-32650 | Left Ventricle Outflow Tract | 13418002 | C0225912 |

CID 12244 Congenital Finding Sites

Type: Extensible
Version: 20040614

Table CID 12244. Congenital Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | D4-31150 | Ventricular Septal Defect | 30288003 | C0018818 |
| SRT | D4-31220 | Atrial Septal Defect | 70142008 | C0018817 |

CID 12245 Cardiac Ultrasound Report Titles

Type: Extensible
Version: 20100317

Table CID 12245. Cardiac Ultrasound Report Titles

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| DCM | 125195 | Pediatric Cardiac Ultrasound Report |
| DCM | 125196 | Fetal Cardiac Ultrasound Report |
| DCM | 125197 | Adult Congenital Cardiac Ultrasound Report |

CID 12246 Cardiac Ultrasound Indication for Study

Type: Extensible
Version: 20100317

Table CID 12246. Cardiac Ultrasound Indication for Study

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | F-0A44A | Fever | 386661006 | C0015967 |
| SRT | F-24210 | Hemoptysis | 66857006 | C0019079 |
| SRT | R-00302 | Murmur | 373112006 | C1298804 |
| SRT | D4-31000 | Congenital heart disease | 13213009 | C0152021 |
| SRT | F-37000 | Chest Pain | 29857009 | C0008031 |
| SRT | D3-13040 | Coronary Artery Disease | 53741008 | C0010054 |
| SRT | F-03C97 | Heart disease risk factors | 171224000 | C0420044 |
| SRT | F-201B3 | Dyspnea | 267036007 | C0013404 |
| SRT | F-38002 | Abnormal ECG | 102594003 | C0522055 |
| SRT | D3-30000 | Arrhythmia | 44808001 | C0264886 |
| SRT | D3-13012 | Angina pectoris | 194828000 | C0002962 |
| SRT | D3-02000 | Hypertension | 38341003 | C0020538 |
| SRT | F-37150 | Palpitations | 80313002 | C0030252 |
| SRT | D3-31290 | Supraventricular tachycardia | 6456007 | C0039240 |
| SRT | D3-00006 | Syncope | 271594007 | C0039070 |
| SRT | D3-33120 | Left bundle branch block | 63467002 | C0023211 |
| SRT | D3-10800 | Valvular heart disease | 368009 | C0018824 |
| SRT | P0-05DA0 | Imaging guidance | 413815006 | C1531652 |

CID 12247 Pediatric, Fetal and Congenital Cardiac Surgical Interventions

Type: Extensible

Version: 20160314

Table CID 12247. Pediatric, Fetal and Congenital Cardiac Surgical Interventions

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | P1-31919 | Arterial switch operation | 174826008 | C0397344 |
| SRT | P1-31018 | Implantation of baffle, atrial or interatrial | 245544005 | C2939161 |
| SRT | P1-31872 | Atrial septal defect repair | 112811009 | C0189965 |
| SRT | P1-31846 | Percutaneous prosthetic closure of atrial septal defect | 30123000 | C0456837 |
| SRT | P1-31037 | Repair of defect of the atrioventricular septum | 174836000 | C0397243 |
| SRT | P1-36957 | Blalock-Taussig shunt, pulmonary-subclavian artery anastomosis | 13662000 | C0397560 |
| SRT | P1-36956 | Central aortopulmonary shunt operation | 233224003 | C0397538 |
| SRT | P1-34001 | Repair of coarctation of aorta | 274022008 | C0558326 |
| SRT | P5-39106 | Coarctation of the Aorta Balloon Angioplasty | 308696000 | C0553938 |
| SRT | P0-06135 | Coarctation of the Aorta Angioplasty with Implant of Stent | 443829004 | C2732719 |
| SRT | P1-31088 | Damus-Stansel-Kaye operation | 233134001 | C0397356 |
| SRT | P1-31028 | Creation of conduit right atrium to pulmonary trunk | 233022006 | C0397204 |
| SRT | P1-36993 | Lateral-Caval Fontan procedure | 427886002 | C1997148 |
| SRT | P1-3696A | Hemi-Fontan operation | 233230003 | C0600403 |
| SRT | P1-36997 | Left Glenn shunt procedure | 444178004 | C2732994 |
| SRT | P1-36994 | Left-sided bidirectional Glenn shunt procedure | 443989003 | C2732993 |
| SRT | P1-31917 | Mustard operation | 40250003 | C1306542 |
| SRT | P1-31089 | Norwood type operation | 233139006 | C0397362 |
| SRT | P0-057E8 | Closure of ductus arteriosus with clip | 233199008 | C0397497 |
| SRT | P0-00E0B | Patent ductus arteriosus coil or device closure | 441676000 | C2711684 |
| SRT | P1-38803 | Partial anomalous pulmonary venous connection operation | 174900004 | C0397156 |
| SRT | P1-31920 | Rastelli operation | 44777001 | C0339891 |
| SRT | P1-36995 | Right Glenn shunt procedure | 444001009 | C2732324 |
| SRT | P1-36996 | Right-sided bidirectional Glenn shunt procedure | 444034006 | C2733094 |
| SRT | P0-00C6B | Construction of LV to aorta tunnel w RV to PA valved conduit | 429620002 | C1996934 |
| SRT | P1-30A31 | Radical aortopulmonary reconstruct w RV to PA valveless conduit | 429616001 | C1997834 |
| SRT | P1-3180D | Sano procedure | 442123009 | C2711052 |
| SRT | P1-31003 | Atrial inversion operation using atrial wall | 174822005 | C0339890 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | P0-0530F | Repair of total anomalous pulmonary venous connection | 174830006 | C0397150 |
| SRT | P1-32504 | Implantation of heart valve prosthesis or synthetic device | 47432005 | C0190100 |
| SRT | P1-32502 | Implantation of heart valve with tissue graft | 37153009 | C0190099 |
| SRT | P1-31876 | Correction of ventricular septal defect | 76025005 | C0189969 |
| SRT | P1-31850 | Ventricular septal defect device closure | 89814007 | C0397314 |

CID 12248 Cardiac Ultrasound Summary Codes

Type: Extensible
Version: 20160314

Table CID 12248. Cardiac Ultrasound Summary Codes

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | D4-31810 | Congenital stenosis of aortic valve | 18546004 | C0152417 |
| SRT | D4-31220 | Atrial Septal Defect | 70142008 | C0018817 |
| SRT | D3-29022 | Aortic regurgitation | 60234000 | C0003504 |
| SRT | D3-29021 | Aortic stenosis | 60573004 | C0003507 |
| SRT | D3-10008 | Cardiomegaly | 287272002 | C0564976 |
| SRT | D4-32014 | Coarctation of the Aorta | 7305005 | C0003492 |
| SRT | D4-31303 | Common atrioventricular canal | 360481003 | C0221215 |
| SRT | D4-31010 | Complete transposition of great vessels | 26146002 | C0040761 |
| SRT | M-04100 | Cyanosis | 3415004 | C0010520 |
| SRT | D4-31B16 | Dextrocardia | 27637000 | C0011813 |
| SRT | D3-83001 | Interrupted Aortic Arch | 218728005 | C0152419 |
| SRT | D4-31B24 | Mesocardia | 16567006 | C0265865 |
| SRT | D3-81660 | Acute febrile mucocutaneous lymph node syndrome | 75053002 | C0026691 |
| SRT | D3-1081C | Mitral valve prolapse | 409712001 | C0026267 |
| SRT | D3-29012 | Mitral regurgitation | 48724000 | C0026266 |
| SRT | D3-29011 | Mitral stenosis | 79619009 | C0026269 |
| SRT | D4-33622 | Partial anomalous pulmonary venous connection | 68237008 | C0158634 |
| SRT | D4-31310 | Atrial septal defect with endocardial cushion defect, partial | 60732002 | C0265814 |
| SRT | D3-29051 | Pulmonic valve stenosis | 56786000 | C0034089 |
| SRT | D3-17100 | Rheumatic Fever | 58718002 | C0035436 |
| SRT | D4-31110 | Tetralogy of Fallot | 86299006 | C0039685 |
| SRT | D4-31150 | Ventricular Septal Defect | 30288003 | C0018818 |
| SRT | D4-31040 | Corrected transposition of great vessels | 83799000 | C0344616 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | D3-29082 | Pulmonary atresia with intact ventricular septum | 253590009 | C0344975 |
| SRT | D4-31611 | Pulmonary atresia with ventricular septal defect | 253591008 | C0344976 |
| SRT | D4-31A00 | Hypoplastic left heart syndrome | 62067003 | C0152101 |
| SRT | D4-31125 | Functional Single Ventricle | 443379009 | C2732741 |

CID 12249 Cardiac Ultrasound Fetal Summary Codes

Type: Extensible
Version: 20100317

Table CID 12249. Cardiac Ultrasound Fetal Summary Codes

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|---------------------------|----------------------|------------------------|
| Include CID 12248 "Cardiac Ultrasound Summary Codes" | | | | |
| SRT | F-0518A | Edema of fetal scalp | 443168008 | C2732384 |
| SRT | F-8612F | Edema of fetal chest wall | 443115002 | C2733165 |

CID 12250 Cardiac Ultrasound Common Linear Measurements

Type: Extensible
Version: 20160314

Table CID 12250. Cardiac Ultrasound Common Linear Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | G-D7FE | Length | 410668003 | C1444754 |
| SRT | M-02550 | Diameter | 81827009 | C1301886 |
| SRT | G-A193 | Major Axis | 131187009 | C1295723 |
| SRT | G-A194 | Minor Axis | 131188004 | C1295724 |
| SRT | M-02560 | Circumference | 74551000 | C0332520 |
| SRT | G-A196 | Radius | 131190003 | C1306504 |
| LN | 59089-3 | ROI Thickness by US | | C2923416 |
| LN | 59090-1 | ROI Internal Dimension by US | | C2923417 |

CID 12251 Cardiac Ultrasound Linear Valve Measurements

Type: Extensible
Version: 20100317

Table CID 12251. Cardiac Ultrasound Linear Valve Measurements

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|---|------------|--------------------|------------------------|
| Include CID 12250 "Cardiac Ultrasound Common Linear Measurements" | | | |
| LN | 59091-9 | D-E Excursion | C2923419 |
| LN | 59109-9 | Leaflet Separation | C2923448 |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|------------------------|
| LN | 59110-7 | Leaflet Thickness | C2923450 |
| LN | 59122-2 | C-E Distance | C2923472 |

CID 12252 Cardiac Ultrasound Cardiac Function

Type: Extensible
Version: 20100317

Table CID 12252. Cardiac Ultrasound Cardiac Function

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | F-32070 | Cardiac ejection fraction | 70822001 | C0232174 |
| LN | 59117-2 | Mean Velocity of Circumferential Fiber Shortening (Mean VcFv) | | C2923464 |
| LN | 59118-0 | HR-Corrected Mean Velocity of Circumferential Fiber Shortening | | C2923466 |
| LN | 59092-7 | % Thickening | | C2923420 |
| LN | 59132-1 | Fractional Shortening | | C2923490 |

CID 12253 Cardiac Ultrasound Area Measurements

Type: Extensible
Version: 20100317

Table CID 12253. Cardiac Ultrasound Area Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| LN | 20226-7 | Flow Area | | C0803041 |
| SRT | G-A166 | Area | 42798000 | C0205146 |
| LN | 59123-0 | Jet Area | | C2923474 |

CID 12254 Cardiac Ultrasound Hemodynamic Measurements

Type: Extensible
Version: 20100317

Table CID 12254. Cardiac Ultrasound Hemodynamic Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| DCM | 122182 | R-R interval | | |
| DCM | 109072 | Tau | | |
| DCM | 109071 | Indicator mean transit time | | |
| LN | 59082-8 | Closure to Opening Time | | C2923406 |
| LN | 59083-6 | Isovolumic Relaxation Time | | C2923408 |
| LN | 59084-4 | Isovolumic Contraction Time | | C2923409 |
| LN | 20222-6 | Ejection Time | | C0803037 |
| LN | 59085-1 | Pre-Ejection Period | | C2923411 |
| LN | 59119-8 | Filling Time | | C2923467 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | F-31000 | Blood Pressure | 75367002 | C0005823 |
| LN | 59086-9 | Heart Rate-Corrected Ejection Time | | C2923412 |
| LN | 59087-7 | Heart Rate-Corrected Pre-Ejection Period | | C2923413 |
| LN | 59105-7 | A-Wave Duration | | C2923441 |
| LN | 59088-5 | Pre-Ejection Period/Ejection Time Ratio | | C2923414 |
| LN | 59108-1 | Envelope Duration | | C2923446 |
| LN | 59121-4 | Time to Peak by US | | C2923470 |
| LN | 59120-6 | dP/dt by US | | C2923468 |

CID 12255 Cardiac Ultrasound Myocardium Measurements

Type: Extensible
Version: 20100317

Table CID 12255. Cardiac Ultrasound Myocardium Measurements

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|------------------------|
| DCM | 122447 | Wall Mass | |
| LN | 59099-2 | Myocardial Performance Index (Tei) | C2923433 |
| LN | 59094-3 | Endocardial Area | C2923423 |
| LN | 59093-5 | Epicardial Area | C2923421 |

CID 12257 Cardiac Ultrasound Left Ventricle

Type: Extensible
Version: 20100317

Table CID 12257. Cardiac Ultrasound Left Ventricle

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|---|----------------------|------------------------|
| Include CID 12220 "Echocardiography Common Measurements" | | | | |
| Include CID 12222 "Orifice Flow Properties" | | | | |
| Include CID 12239 "Cardiac Output Properties" | | | | |
| Include CID 12250 "Cardiac Ultrasound Common Linear Measurements" | | | | |
| Include CID 12252 "Cardiac Ultrasound Cardiac Function" | | | | |
| Include CID 12253 "Cardiac Ultrasound Area Measurements" | | | | |
| Include CID 12254 "Cardiac Ultrasound Hemodynamic Measurements" | | | | |
| Include CID 12255 "Cardiac Ultrasound Myocardium Measurements" | | | | |
| SRT | G-D705 | Volume | 118565006 | C0449468 |
| LN | 18155-2 | Interventricular Septum to Posterior Wall Thickness Ratio | | C0801204 |
| SRT | G-037B | Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave | 399140004 | C1275825 |
| LN | 59097-6 | Left Ventricle Meridional Wall Stress | | C2923429 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| LN | 59095-0 | Time to Left Ventricle S Tissue Velocity | | C2923425 |
| LN | 59096-8 | Time to Left Ventricle E Tissue Velocity | | C2923427 |
| LN | 59124-8 | Tissue Velocity Time Integral (VTI) for the area under Left Ventricle E wave | | C2923476 |
| LN | 59125-5 | Tissue Velocity Time Integral (VTI) for the area under Left Ventricle A wave | | C2923478 |
| LN | 59129-7 | Left Ventricle E to A Tissue Velocity Ratio | | C2923485 |
| LN | 59133-9 | Peak Tissue Velocity | | C2923492 |

CID 12258 Cardiac Ultrasound Right Ventricle

Type: Extensible
Version: 20100317

Table CID 12258. Cardiac Ultrasound Right Ventricle

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--------------|----------------------|------------------------|
| Include CID 12220 "Echocardiography Common Measurements" | | | | |
| Include CID 12222 "Orifice Flow Properties" | | | | |
| Include CID 12250 "Cardiac Ultrasound Common Linear Measurements" | | | | |
| Include CID 12253 "Cardiac Ultrasound Area Measurements" | | | | |
| Include CID 12254 "Cardiac Ultrasound Hemodynamic Measurements" | | | | |
| Include CID 12255 "Cardiac Ultrasound Myocardium Measurements" | | | | |
| SRT | G-D705 | Volume | 118565006 | C0449468 |

CID 12259 Cardiac Ultrasound Ventricles Measurements

Type: Extensible
Version: 20100317

Table CID 12259. Cardiac Ultrasound Ventricles Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| Include CID 12257 "Cardiac Ultrasound Left Ventricle" | | |
| Include CID 12258 "Cardiac Ultrasound Right Ventricle" | | |

CID 12260 Cardiac Ultrasound Pulmonary Artery

Type: Extensible
Version: 20100317

Table CID 12260. Cardiac Ultrasound Pulmonary Artery

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 12220 "Echocardiography Common Measurements" | | |
| Include CID 12222 "Orifice Flow Properties" | | |
| Include CID 12250 "Cardiac Ultrasound Common Linear Measurements" | | |
| Include CID 12253 "Cardiac Ultrasound Area Measurements" | | |

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 12254 "Cardiac Ultrasound Hemodynamic Measurements"</i> | | |

CID 12261 Cardiac Ultrasound Pulmonary Vein

Type: Extensible
Version: 20100317

Table CID 12261. Cardiac Ultrasound Pulmonary Vein

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--|------------|---|------------------------|
| <i>Include CID 12220 "Echocardiography Common Measurements"</i> | | | |
| <i>Include CID 12222 "Orifice Flow Properties"</i> | | | |
| <i>Include CID 12254 "Cardiac Ultrasound Hemodynamic Measurements"</i> | | | |
| <i>Include CID 3612 "Blood Velocity Measurements"</i> | | | |
| LN | 59112-3 | Pulmonary Vein A Duration Mitral Valve A Duration Ratio | C2923454 |
| LN | 59113-1 | Pulmonary Vein A VTI to Mitral Valve VTI Ratio | C2923456 |
| LN | 59114-9 | Pulm Vein A duration to MV A duration difference | C2923458 |

CID 12262 Cardiac Ultrasound Pulmonary Valve

Type: Extensible
Version: 20100317

Table CID 12262. Cardiac Ultrasound Pulmonary Valve

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|---|------------|--|------------------------|
| <i>Include CID 12220 "Echocardiography Common Measurements"</i> | | | |
| <i>Include CID 12222 "Orifice Flow Properties"</i> | | | |
| <i>Include CID 12239 "Cardiac Output Properties"</i> | | | |
| <i>Include CID 12251 "Cardiac Ultrasound Linear Valve Measurements"</i> | | | |
| <i>Include CID 12252 "Cardiac Ultrasound Cardiac Function"</i> | | | |
| <i>Include CID 12253 "Cardiac Ultrasound Area Measurements"</i> | | | |
| <i>Include CID 12254 "Cardiac Ultrasound Hemodynamic Measurements"</i> | | | |
| LN | 59101-6 | Pulmonary Artery Pressure using Accel Time | C2923436 |
| LN | 20295-2 | Time from Q wave to Pulmonic Valve Closes | C0803110 |
| LN | 59100-8 | A-Wave Amplitude | C2923435 |
| LN | 59126-3 | B-C Slope | C2923480 |

CID 12263 Cardiac Ultrasound Venous Return Pulmonary Measurements

Type: Extensible
Version: 20100317

Table CID 12263. Cardiac Ultrasound Venous Return Pulmonary Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 12261 "Cardiac Ultrasound Pulmonary Vein"</i> | | |
| <i>Include CID 12262 "Cardiac Ultrasound Pulmonary Valve"</i> | | |

CID 12264 Cardiac Ultrasound Venous Return Systemic Measurements

Type: Extensible
Version: 20100317

Table CID 12264. Cardiac Ultrasound Venous Return Systemic Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 12220 "Echocardiography Common Measurements"</i> | | |
| <i>Include CID 12222 "Orifice Flow Properties"</i> | | |
| <i>Include CID 12239 "Cardiac Output Properties"</i> | | |
| <i>Include CID 12250 "Cardiac Ultrasound Common Linear Measurements"</i> | | |
| <i>Include CID 12252 "Cardiac Ultrasound Cardiac Function"</i> | | |
| <i>Include CID 12253 "Cardiac Ultrasound Area Measurements"</i> | | |
| <i>Include CID 12254 "Cardiac Ultrasound Hemodynamic Measurements"</i> | | |
| <i>Include CID 3612 "Blood Velocity Measurements"</i> | | |

CID 12265 Cardiac Ultrasound Atria and Atrial Septum Measurements

Type: Extensible
Version: 20100317

Table CID 12265. Cardiac Ultrasound Atria and Atrial Septum Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|---|----------------------|------------------------|
| <i>Include CID 12220 "Echocardiography Common Measurements"</i> | | | | |
| <i>Include CID 12222 "Orifice Flow Properties"</i> | | | | |
| <i>Include CID 12250 "Cardiac Ultrasound Common Linear Measurements"</i> | | | | |
| <i>Include CID 12253 "Cardiac Ultrasound Area Measurements"</i> | | | | |
| <i>Include CID 12255 "Cardiac Ultrasound Myocardium Measurements"</i> | | | | |
| SRT | G-D705 | Volume | 118565006 | C0449468 |
| LN | 17985-3 | Left Atrium to Aortic Root Ratio | | C0801035 |
| LN | 59131-3 | Left Atrium Volume to Right Atrium Volume Ratio | | C2923488 |

CID 12266 Cardiac Ultrasound Mitral Valve

Type: Extensible
Version: 20100317

Table CID 12266. Cardiac Ultrasound Mitral Valve

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|---|------------|--------------|------------------------|
| <i>Include CID 12220 "Echocardiography Common Measurements"</i> | | | |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--|------------|--|------------------------|
| Include CID 12222 "Orifice Flow Properties" | | | |
| Include CID 12239 "Cardiac Output Properties" | | | |
| Include CID 12251 "Cardiac Ultrasound Linear Valve Measurements" | | | |
| Include CID 12252 "Cardiac Ultrasound Cardiac Function" | | | |
| Include CID 12253 "Cardiac Ultrasound Area Measurements" | | | |
| Include CID 12254 "Cardiac Ultrasound Hemodynamic Measurements" | | | |
| Include CID 3612 "Blood Velocity Measurements" | | | |
| LN | 18035-6 | Mitral Regurgitation dP/dt derived from Mitral Reg. velocity | C0801084 |
| LN | 59098-4 | Mitral Valve E-septal Separation | C2923431 |
| LN | 18036-4 | Mitral Valve EPSS, E wave | C0801085 |

CID 12267 Cardiac Ultrasound Tricuspid Valve

Type: Extensible

Version: 20100317

Table CID 12267. Cardiac Ultrasound Tricuspid Valve

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--|------------|---|----------------------|------------------------|
| Include CID 12220 "Echocardiography Common Measurements" | | | | |
| Include CID 12222 "Orifice Flow Properties" | | | | |
| Include CID 12239 "Cardiac Output Properties" | | | | |
| Include CID 12251 "Cardiac Ultrasound Linear Valve Measurements" | | | | |
| Include CID 12252 "Cardiac Ultrasound Cardiac Function" | | | | |
| Include CID 12253 "Cardiac Ultrasound Area Measurements" | | | | |
| Include CID 12254 "Cardiac Ultrasound Hemodynamic Measurements" | | | | |
| Include CID 3612 "Blood Velocity Measurements" | | | | |
| SRT | R-003A9 | Tricuspid Diastolic Filling Period (DFPt) | 371847009 | C1299324 |
| LN | 20296-0 | Time from Q wave to Tricuspid Valve Opens | | C0803111 |

CID 12268 Cardiac Ultrasound Atrioventricular Valves Measurements

Type: Extensible

Version: 20100317

Table CID 12268. Cardiac Ultrasound Atrioventricular Valves Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| Include CID 12266 "Cardiac Ultrasound Mitral Valve" | | |
| Include CID 12267 "Cardiac Ultrasound Tricuspid Valve" | | |

CID 12269 Cardiac Ultrasound Interventricular Septum Measurements

Type: Extensible

Version: 20100317

Table CID 12269. Cardiac Ultrasound Interventricular Septum Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| <i>Include CID 12220 "Echocardiography Common Measurements"</i> | | |
| <i>Include CID 12222 "Orifice Flow Properties"</i> | | |
| <i>Include CID 12250 "Cardiac Ultrasound Common Linear Measurements"</i> | | |
| <i>Include CID 12253 "Cardiac Ultrasound Area Measurements"</i> | | |

CID 12270 Cardiac Ultrasound Aortic Valve

Type: Extensible
Version: 20100317

Table CID 12270. Cardiac Ultrasound Aortic Valve

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--|------------|------------------------------|------------------------|
| <i>Include CID 12220 "Echocardiography Common Measurements"</i> | | | |
| <i>Include CID 12222 "Orifice Flow Properties"</i> | | | |
| <i>Include CID 12239 "Cardiac Output Properties"</i> | | | |
| <i>Include CID 12250 "Cardiac Ultrasound Common Linear Measurements"</i> | | | |
| <i>Include CID 12252 "Cardiac Ultrasound Cardiac Function"</i> | | | |
| <i>Include CID 12253 "Cardiac Ultrasound Area Measurements"</i> | | | |
| <i>Include CID 12254 "Cardiac Ultrasound Hemodynamic Measurements"</i> | | | |
| LN | 17996-0 | Aortic Valve Cusp Separation | C0801046 |

CID 12271 Cardiac Ultrasound Outflow Tracts Measurements

Type: Extensible
Version: 20100317

Table CID 12271. Cardiac Ultrasound Outflow Tracts Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 12257 "Cardiac Ultrasound Left Ventricle"</i> | | |
| <i>Include CID 12258 "Cardiac Ultrasound Right Ventricle"</i> | | |
| <i>Include CID 12262 "Cardiac Ultrasound Pulmonary Valve"</i> | | |
| <i>Include CID 12270 "Cardiac Ultrasound Aortic Valve"</i> | | |

CID 12272 Cardiac Ultrasound Semilunar Valves, Annulate and Sinuses Measurements

Type: Extensible
Version: 20100317

Table CID 12272. Cardiac Ultrasound Semilunar Valves, Annulate and Sinuses Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| <i>Include CID 12262 "Cardiac Ultrasound Pulmonary Valve"</i> | | |
| <i>Include CID 12270 "Cardiac Ultrasound Aortic Valve"</i> | | |

CID 12273 Cardiac Ultrasound Aortic Sinotubular Junction

Type: Extensible
Version: 20100317

Table CID 12273. Cardiac Ultrasound Aortic Sinotubular Junction

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|---|------------|--|------------------------|
| Include CID 12220 "Echocardiography Common Measurements" | | | |
| Include CID 12222 "Orifice Flow Properties" | | | |
| Include CID 12250 "Cardiac Ultrasound Common Linear Measurements" | | | |
| LN | 59116-4 | Aortic Sinotubular Junction to Aortic Root Ratio | C2923462 |

CID 12274 Cardiac Ultrasound Aorta Measurements

Type: Extensible
Version: 20100317

Table CID 12274. Cardiac Ultrasound Aorta Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|--|------------|--------------|
| Include CID 12220 "Echocardiography Common Measurements" | | |
| Include CID 12222 "Orifice Flow Properties" | | |
| Include CID 12250 "Cardiac Ultrasound Common Linear Measurements" | | |
| Include CID 12270 "Cardiac Ultrasound Aortic Valve" | | |
| Include CID 12273 "Cardiac Ultrasound Aortic Sinotubular Junction" | | |

CID 12275 Cardiac Ultrasound Coronary Arteries Measurements

Type: Extensible
Version: 20100317

Table CID 12275. Cardiac Ultrasound Coronary Arteries Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 12220 "Echocardiography Common Measurements" | | |
| Include CID 12222 "Orifice Flow Properties" | | |
| Include CID 12250 "Cardiac Ultrasound Common Linear Measurements" | | |

CID 12276 Cardiac Ultrasound Aorto Pulmonary Connections Measurements

Type: Extensible
Version: 20100317

Table CID 12276. Cardiac Ultrasound Aorto Pulmonary Connections Measurements

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--|------------|--------------|------------------------|
| Include CID 12220 "Echocardiography Common Measurements" | | | |
| Include CID 12222 "Orifice Flow Properties" | | | |
| Include CID 3612 "Blood Velocity Measurements" | | | |

| Coding Scheme Designator | Code Value | Code Meaning | UMLS Concept Unique ID |
|--------------------------|------------|--|------------------------|
| LN | 29462-9 | Pulmonary-to-Systemic Shunt Flow Ratio | C0944910 |

CID 12277 Cardiac Ultrasound Pericardium and Pleura Measurements

Type: Extensible
Version: 20100317

Table CID 12277. Cardiac Ultrasound Pericardium and Pleura Measurements

| Coding Scheme Designator | Code Value | Code Meaning |
|---|------------|--------------|
| Include CID 12250 "Cardiac Ultrasound Common Linear Measurements" | | |

CID 12279 Cardiac Ultrasound Fetal General Measurements

Type: Extensible
Version: 20100317

Table CID 12279. Cardiac Ultrasound Fetal General Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|---|------------|--|----------------------|------------------------|
| Include CID 12004 "Fetal Biometry Ratios" | | | | |
| LN | 11988-3 | Thoracic Circumference | | C0552104 |
| LN | 33068-8 | Thoracic Area | | C1315539 |
| LN | 59073-7 | Cardiac Circumference, transverse by US | | C2923390 |
| LN | 59074-5 | Cardiothoracic Circumference Ratio | | C2923392 |
| LN | 59075-2 | Cardiac Cross-sectional Area, transverse by US | | C2923394 |
| LN | 59076-0 | Cardiothoracic Area Ratio | | C2923396 |
| LN | 11820-8 | Biparietal Diameter | | C0551937 |
| LN | 33069-6 | Nuchal Translucency | | C1315540 |
| LN | 11963-6 | Femur Length | | C0552080 |
| LN | 11979-2 | Abdominal Circumference | | C0552095 |
| LN | 11818-2 | Anterior-Posterior Abdominal Diameter | | C0551935 |
| LN | 11819-0 | Anterior-Posterior Trunk Diameter | | C0551936 |
| LN | 11824-0 | BPD area corrected | | C0551941 |
| LN | 11860-4 | Cisterna Magna | | C0551977 |
| LN | 11984-2 | Head Circumference | | C0552100 |
| LN | 11851-3 | Occipital-Frontal Diameter | | C0551968 |
| LN | 11862-0 | Transverse Abdominal Diameter | | C0551979 |
| LN | 11863-8 | Trans Cerebellar Diameter | | C0551980 |
| LN | 11864-6 | Transverse Thoracic Diameter | | C0551981 |
| LN | 59077-8 | Foramen Ovale Diameter/Aortic Root Diameter | | C2923398 |
| LN | 59078-6 | Left Ventricle/Right Ventricle Diameter Ratio | | C2923400 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | F-00AA0 | Number of umbilical arteries | 249192005 | C0426250 |

CID 12280 Cardiac Ultrasound Target Sites

Type: Extensible
Version: 20100317

Table CID 12280. Cardiac Ultrasound Target Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-4210B | Anterior Wall | 263943000 | C0442070 |
| SRT | R-42175 | Posterior Wall | 264159006 | C0442071 |
| SRT | T-3500E | Cardiac valve annulus | 305437000 | C0583326 |
| SRT | T-42340 | Preductal region of aortic arch | 75397005 | C0226020 |
| SRT | T-42350 | Postductal region of aortic arch | 60835009 | C0226021 |
| SRT | R-421AA | Vena Contracta | 443501007 | C2732913 |
| SRT | T-42304 | Transverse Aortic Arch | 443281009 | C2733296 |
| SRT | M-36700 | Effusion | 41699000 | C0013687 |
| SRT | T-35002 | Cardiac Valve Leaflet | 6530003 | C0225922 |
| SRT | T-44200 | Right Pulmonary Artery | 78480002 | C0226054 |
| SRT | T-44400 | Left Pulmonary Artery | 50408007 | C0226069 |
| SRT | T-32550 | Right Ventricle Outflow Tract | 44627009 | C0225892 |
| SRT | T-32650 | Left Ventricle Outflow Tract | 13418002 | C0225912 |
| SRT | T-48510 | Right Superior Pulmonary Vein | 8629005 | C0226671 |
| SRT | T-48520 | Right Inferior Pulmonary Vein | 113273001 | C0226676 |
| SRT | T-48530 | Left Superior Pulmonary Vein | 43863001 | C0226682 |
| SRT | T-48540 | Left Inferior Pulmonary Vein | 51249003 | C0226686 |
| SRT | T-48505 | Pulmonary Vein Right Middle Segment | 443714006 | C2732734 |
| SRT | T-F6859 | Pulmonary Vein Common Left Segment | 443705001 | C2732450 |
| SRT | T-F6858 | Pulmonary Vein Common Right Segment | 443591004 | C2733538 |
| SRT | M-2460C | Pulmonary Vein confluence to Atrium Connection | 443208000 | C2733176 |

CID 12281 Cardiac Ultrasound Target Site Modifiers

Type: Extensible
Version: 20160405

Table CID 12281. Cardiac Ultrasound Target Site Modifiers

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | G-A104 | Lateral | 49370004 | C0205093 |
| SRT | R-404D5 | Medial | 255561001 | C0205098 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | R-4081A | Middle | 260528009 | C2939193 |
| SRT | R-404CC | Anterior | 255549009 | C1704448 |
| SRT | R-404CE | Posterior | 255551008 | C0205095 |
| SRT | R-4094A | Inferior | 261089000 | C0542339 |
| SRT | G-A119 | Distal | 46053002 | C0205108 |
| SRT | G-A118 | Proximal | 40415009 | C0205107 |

CID 12282 Cardiac Ultrasound Venous Return Systemic Finding Sites

Type: Extensible
Version: 20100317

Table CID 12282. Cardiac Ultrasound Venous Return Systemic Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | T-48610 | Superior Vena Cava | 48345005 | C0042459 |
| SRT | M-2460D | Right Superior Vena Cava | 443444008 | C2733597 |
| SRT | T-48611 | Left Superior Vena Cava | 9642004 | C0226694 |
| SRT | T-48710 | Inferior Vena Cava | 64131007 | C0042458 |
| SRT | T-48720 | Hepatic Vein | 8993003 | C0019155 |
| SRT | T-D087E | Hemi-Fontan Pathway | 443327008 | C2732261 |
| SRT | T-D0884 | Glenn Pathway | 443789005 | C2732228 |
| SRT | T-D087C | Fontan Pathway | 443298009 | C2732260 |
| SRT | T-D087D | Fontan Inferior Vena Cava Pathway | 443326004 | C2733297 |
| SRT | T-D0882 | Fontan Fenestration | 443724003 | C2732467 |
| SRT | T-D0880 | Fontan Pulmonary Artery Connection | 443625008 | C2732967 |
| SRT | DD-66228 | Fontan Baffle Leak | 443461006 | C2733533 |
| SRT | T-D0887 | Mustard or Senning Superior Vena Cava Pathway | 444177009 | C2732998 |
| SRT | T-D0888 | Mustard or Senning Inferior Vena Cava Pathway | 444329004 | C2732999 |
| SRT | T-D0885 | Mustard or Senning Common Systemic Venous Pathway | 443809000 | C2732609 |

CID 12283 Cardiac Ultrasound Venous Return Pulmonary Finding Sites

Type: Extensible
Version: 20100317

Table CID 12283. Cardiac Ultrasound Venous Return Pulmonary Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | T-48581 | Pulmonary Vein | 122972007 | C0034090 |
| SRT | T-4858F | Pulmonary Vein Great Vessel | 430757002 | C2317442 |
| SRT | M-20103 | Cor Triatriatum Orifice | 443445009 | C2733324 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | T-D087B | Pulmonary Vein to Atrium Connection | 443297004 | C2732968 |
| SRT | T-D0886 | Mustard or Senning Pulmonary Venous Pathway | 443907004 | C2732659 |

CID 12284 Cardiac Ultrasound Atria and Atrial Septum Finding Sites

Type: Extensible
Version: 20160314

Table CID 12284. Cardiac Ultrasound Atria and Atrial Septum Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------|----------------------|------------------------|
| SRT | T-32200 | Right Atrium | 73829009 | C0225844 |
| SRT | T-32300 | Left Atrium | 82471001 | C0225860 |
| SRT | D4-31005 | Common Atrium | 253276007 | C0392482 |
| SRT | T-32310 | Left Auricular Appendage | 33626005 | C0225861 |
| SRT | T-32210 | Right Auricular Appendage | 68300000 | C0225845 |
| SRT | T-32150 | Interatrial Septum Structure | 58095006 | C0225836 |
| SRT | D4-31220 | Atrial Septal Defect | 70142008 | C0018817 |
| SRT | T-32156 | Limbus of Fossa Ovalis | 84712000 | C0225842 |
| SRT | D4-31012 | Patent Foramen Ovale | 204317008 | C0016522 |
| SRT | T-D0882 | Fontan Fenestration | 443724003 | C2732467 |
| SRT | DD-66228 | Fontan Baffle Leak | 443461006 | C2733533 |

CID 12285 Cardiac Ultrasound Atrioventricular Valves Finding Sites

Type: Extensible
Version: 20160314

Table CID 12285. Cardiac Ultrasound Atrioventricular Valves Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-35300 | Mitral Valve | 91134007 | C0026264 |
| SRT | T-35100 | Tricuspid Valve | 46030003 | C0040960 |
| SRT | T-35008 | Common non-mitral non-tricuspid Atrioventricular Valve Structure | 312522004 | C0729875 |

CID 12286 Cardiac Ultrasound Interventricular Septum Finding Sites

Type: Extensible
Version: 20100317

Table CID 12286. Cardiac Ultrasound Interventricular Septum Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | T-32410 | Interventricular Septum | 589001 | C0225870 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| SRT | D4-31150 | Ventricular Septal Defect | 30288003 | C0018818 |
| SRT | M-20102 | Bulboventricular Foramen | 443329006 | C2732784 |

CID 12287 Cardiac Ultrasound Ventricles Finding Sites

Type: Extensible
Version: 20100317

Table CID 12287. Cardiac Ultrasound Ventricles Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------|----------------------|------------------------|
| SRT | T-32600 | Left Ventricle | 87878005 | C0225897 |
| SRT | T-32500 | Right Ventricle | 53085002 | C0225883 |
| SRT | D4-31120 | Common Ventricle | 45503006 | C0152424 |

CID 12288 Cardiac Ultrasound Outflow Tracts Finding Sites

Type: Extensible
Version: 20100317

Table CID 12288. Cardiac Ultrasound Outflow Tracts Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---|----------------------|------------------------|
| SRT | T-32600 | Left Ventricle | 87878005 | C0225897 |
| SRT | T-32500 | Right Ventricle | 53085002 | C0225883 |
| SRT | T-D0879 | Rastelli Interventricular Tunnel | 443260009 | C2733139 |
| SRT | T-D087F | Right Ventricle to Pulmonary Artery Conduit Anastomosis | 443328003 | C2733003 |
| SRT | T-D0881 | Left Ventricle to Pulmonary Artery Conduit Anastomosis | 443696003 | C2732878 |
| SRT | T-35400 | Aortic Valve | 34202007 | C0003501 |
| SRT | T-35200 | Pulmonic Valve | 39057004 | C0034086 |

CID 12289 Cardiac Ultrasound Semilunar Valves, Annulus and Sinuses Finding Sites

Type: Extensible
Version: 20100317

Table CID 12289. Cardiac Ultrasound Semilunar Valves, Annulus and Sinuses Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------|----------------------|------------------------|
| SRT | T-35400 | Aortic Valve | 34202007 | C0003501 |
| SRT | T-42110 | Root of Aorta | 8128003 | C0549113 |
| SRT | T-35200 | Pulmonic Valve | 39057004 | C0034086 |
| SRT | T-35014 | Truncal Valve Structure | 279317000 | C0458377 |
| SRT | T-D087A | Neo-aortic Valve | 443283007 | C2733223 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------|----------------------|------------------------|
| SRT | T-D0883 | Neoaortic Root | 443726001 | C2733222 |

CID 12290 Cardiac Ultrasound Pulmonary Arteries Finding Sites

Type: Extensible
Version: 20100317

Table CID 12290. Cardiac Ultrasound Pulmonary Arteries Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | T-44100 | Pulmonary Trunk | 45341000 | C0034052 |
| SRT | T-44000 | Pulmonary Artery | 81040000 | C0034052 |
| SRT | T-D0877 | Aorta to Pulmonary Artery Connection | 443096004 | C2732457 |

CID 12291 Cardiac Ultrasound Aorta Finding Sites

Type: Extensible
Version: 20100317

Table CID 12291. Cardiac Ultrasound Aorta Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-----------------------------|----------------------|------------------------|
| SRT | T-42110 | Root of Aorta | 8128003 | C0549113 |
| SRT | T-42200 | Structure Sinus of Valsalva | 81128002 | C0037197 |
| SRT | T-42220 | Left Sinus of Valsalva | 36371001 | C0226017 |
| SRT | T-42210 | Right Sinus of Valsalva | 89093001 | C0226016 |
| SRT | T-42231 | Non-coronary Sinus | 264873000 | C0445122 |
| SRT | T-42102 | Aortic Sinotubular Junction | 443167003 | C2733424 |
| SRT | T-42100 | Ascending Aorta | 54247002 | C0003956 |
| SRT | T-42300 | Aortic Arch | 57034009 | C0003489 |
| SRT | T-42310 | Aortic Isthmus | 88593004 | C0226019 |
| SRT | D4-32014 | Coarctation of Aorta | 7305005 | C0003492 |
| SRT | T-42070 | Thoracic Aorta | 113262008 | C1522460 |
| SRT | T-42500 | Abdominal Aorta | 7832008 | C0003484 |
| SRT | T-42510 | Supra Renal Aorta | 1918003 | C0226024 |
| SRT | T-42520 | Infra-Renal Aorta | 28205006 | C0226025 |
| SRT | T-46010 | Innominate Artery | 12691009 | C0006094 |
| SRT | T-45110 | Right Common Carotid Artery | 65355003 | C0226086 |
| SRT | T-46110 | Right Subclavian Artery | 29700009 | C0226261 |
| SRT | T-45120 | Left Common Carotid Artery | 113263003 | C0226087 |
| SRT | T-46120 | Left Subclavian Artery | 85235006 | C0226262 |

CID 12292 Cardiac Ultrasound Coronary Arteries Finding Sites

Type: Extensible

Version: 20100317

Table CID 12292. Cardiac Ultrasound Coronary Arteries Finding Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | T-43107 | Left Main Coronary Artery | 3227004 | C0226031 |
| SRT | T-43120 | Circumflex Coronary Artery | 57396003 | C0226037 |
| SRT | T-43121 | Proximal Circumflex Coronary Artery | 52433000 | C0226038 |
| SRT | T-43127 | Mid Circumflex Coronary Artery | 91753007 | C0524433 |
| SRT | T-43122 | Distal Circumflex Coronary Artery | 6511003 | C0226039 |
| SRT | T-43110 | Anterior Descending Branch of Left Coronary Artery | 59438005 | C0226032 |
| SRT | T-43002 | Septal Artery | 244251006 | C0447058 |
| SRT | T-43203 | Right Coronary Artery | 362037006 | C0226042 |
| SRT | T-D0878 | Posterior Descending Coronary Artery | 443113009 | C2732720 |

CID 12293 Cardiac Ultrasound Aortopulmonary Connections Finding SitesType: Extensible
Version: 20100317**Table CID 12293. Cardiac Ultrasound Aortopulmonary Connections Finding Sites**

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------------------|----------------------|------------------------|
| SRT | D4-32012 | Patent Ductus Arteriosus | 83330001 | C0013274 |
| SRT | T-D0877 | Aorta to Pulmonary Artery Connection | 443096004 | C2732457 |
| SRT | D1-50666 | Arteriovenous Fistula | 439470001 | C0003855 |

CID 12294 Cardiac Ultrasound Pericardium and Pleura Finding SitesType: Extensible
Version: 20100317**Table CID 12294. Cardiac Ultrasound Pericardium and Pleura Finding Sites**

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------|----------------------|------------------------|
| SRT | T-39000 | Pericardium | 76848001 | C0031050 |
| SRT | T-29000 | Pleura | 3120008 | C0032225 |
| SRT | T-29200 | Left Pleura | 53727004 | C0225784 |
| SRT | T-29100 | Right Pleura | 44788007 | C0225779 |

CID 12300 Core Echo Measurements

This codeset is populated mostly based on measurements identified in best practice articles published by the American Society of Echocardiography (ASE). The LOINC codes were introduced after fully modelling the underlying semantics of the measurement. The Units column contains the proper UCUM representation of the recommended units for the measured property.

Note

The Code Meaning shown here reflects the colloquial style by which the measurements were identified in the ASE articles and would likely be appropriate for displaying to users. However, implementers of clinical applications and databases will need to review the definitions of these measurements to correctly understand the full pre-coordinated semantics of the codes. Similarly, reuse of the codes based on the Code Meaning text without reviewing and confirming the applicability of the full semantics found in the code definitions is discouraged.

Type: Non-Extensible
Version: 20161109

Table CID 12300. Core Echo Measurements

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|---|----------------------|------------------------|--------------------------|
| LN | 79940-3 | Aortic annulus diameter | | C4070180 | (cm, UCUM, "cm") |
| LN | 79941-1 | Aortic regurgitant flow | | C4071396 | (ml/s, UCUM, "ml/s") |
| LN | 79942-9 | Aortic regurgitant fraction | | C4071395 | (%, UCUM, "%") |
| LN | 79943-7 | Aortic regurgitant jet area/LVOT area % | | C4069758 | (%, UCUM, "%") |
| LN | 79944-5 | Aortic regurgitant jet width/LVOT width % | | C4069757 | (%, UCUM, "%") |
| LN | 79945-2 | Aortic regurgitation PISA radius | | C4069756 | (cm, UCUM, "cm") |
| LN | 79946-0 | Aortic regurgitation PISA velocity | | C4069755 | (cm/s, UCUM, "cm/s") |
| LN | 79947-8 | Aortic regurgitation pressure half-time | | C4069754 | (ms, UCUM, "ms") |
| LN | 79948-6 | Aortic regurgitation vena contracta width | | C4069753 | (cm, UCUM, "cm") |
| LN | 79949-4 | Aortic regurgitation Vmax | | C4069752 | (cm/s, UCUM, "cm/s") |
| LN | 79950-2 | Aortic regurgitation volume (Continuity VTI) | | C4070676 | (ml, UCUM, "ml") |
| LN | 79951-0 | Aortic regurgitation volume (PISA) | | C4070675 | (ml, UCUM, "ml") |
| LN | 79952-8 | Aortic regurgitation VTI | | C4070674 | (cm, UCUM, "cm") |
| LN | 79953-6 | Aortic root diameter | | C4070673 | (cm, UCUM, "cm") |
| LN | 79954-4 | Aortic root diameter / BSA | | C4069751 | (cm/m2, UCUM, "cm/m2") |
| LN | 79955-1 | Aortic sinotubular junction dimension | | C4069750 | (cm, UCUM, "cm") |
| LN | 79956-9 | Aortic valve area (Continuity Vmax) | | C4069749 | (cm2, UCUM, "cm2") |
| LN | 79957-7 | Aortic valve area (Continuity Vmax) / BSA | | C4069748 | (cm2/m2, UCUM, "cm2/m2") |
| LN | 79958-5 | Aortic valve area (Continuity VTI) | | C4069747 | (cm2, UCUM, "cm2") |
| LN | 79959-3 | Aortic valve area (Continuity VTI) / BSA | | C4069746 | (cm2/m2, UCUM, "cm2/m2") |
| LN | 79960-1 | Aortic valve effective regurgitant orifice area | | C4069745 | (cm2, UCUM, "cm2") |
| LN | 79961-9 | Aortic valve mean blood velocity | | C4069744 | (cm/s, UCUM, "cm/s") |
| LN | 79962-7 | Aortic valve mean gradient | | C4050483 | (mm[Hg], UCUM, "mmHg") |
| LN | 79963-5 | Aortic valve peak instantaneous gradient | | C4050482 | (mm[Hg], UCUM, "mmHg") |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|---|----------------------|------------------------|------------------------|
| LN | 79964-3 | Aortic valve Vmax | | C4069743 | (cm/s, UCUM, "cm/s") |
| LN | 79965-0 | Aortic valve VTI | | C4069742 | (cm, UCUM, "cm") |
| LN | 79966-8 | Ascending Aorta Dimension | | C4069741 | (cm, UCUM, "cm") |
| LN | 79967-6 | Inferior vena cava diameter | | C4069740 | (cm, UCUM, "cm") |
| LN | 79968-4 | Interventricular septum diastolic dimension MM | | C4069739 | (cm, UCUM, "cm") |
| LN | 79969-2 | Interventricular septum diastolic dimension 2D | | C4069738 | (cm, UCUM, "cm") |
| LN | 79970-0 | Interventricular septum systolic dimension MM | | C4069737 | (cm, UCUM, "cm") |
| LN | 79971-8 | Interventricular septum systolic dimension 2D | | C4069736 | (cm, UCUM, "cm") |
| LN | 79972-6 | Interventricular septum time to peak displacement | | C4069735 | (ms, UCUM, "ms") |
| LN | 79973-4 | Left atrial end systolic area 2C | | C4069734 | (cm2, UCUM, "cm2") |
| LN | 79974-2 | Left atrial end systolic area 4C | | C4069733 | (cm2, UCUM, "cm2") |
| LN | 79975-9 | Left atrial end systolic diameter (AP) 2D | | C4069732 | (cm, UCUM, "cm") |
| LN | 79976-7 | Left atrial end systolic diameter (AP) 2D / BSA | | C4069731 | (cm/m2, UCUM, "cm/m2") |
| LN | 79977-5 | Left atrial end systolic diameter (AP) MM | | C4069730 | (cm, UCUM, "cm") |
| LN | 79978-3 | Left atrial end systolic diameter (AP) MM / BSA | | C4069729 | (cm/m2, UCUM, "cm/m2") |
| LN | 79979-1 | Left atrial end systolic length 2C | | C4069728 | (cm, UCUM, "cm") |
| LN | 79980-9 | Left atrial end systolic length 4C | | C4069727 | (cm, UCUM, "cm") |
| LN | 79981-7 | Left atrial end systolic volume biplane (area-length) | | C4069726 | (ml, UCUM, "ml") |
| LN | 79982-5 | Left atrial end systolic volume biplane (area-length) / BSA | | C4069725 | (ml/m2, UCUM, "ml/m2") |
| LN | 79983-3 | Left atrial end systolic volume biplane (MOD) | | C4069724 | (ml, UCUM, "ml") |
| LN | 79984-1 | Left atrial end systolic volume biplane (MOD) / BSA | | C4069723 | (ml/m2, UCUM, "ml/m2") |
| LN | 79985-8 | Left atrial end systolic volume single plane 2C (MOD) | | C4069722 | (ml, UCUM, "ml") |
| LN | 79986-6 | Left atrial end systolic volume single plane 4C (MOD) | | C4069721 | (ml, UCUM, "ml") |
| LN | 79987-4 | Left pulmonary artery diameter | | C4069720 | (cm, UCUM, "cm") |
| LN | 79988-2 | Left ventricular posterior wall time to peak displacement | | C4069719 | (ms, UCUM, "ms") |
| LN | 79989-0 | Left ventricular pre-ejection period | | C4050481 | (ms, UCUM, "ms") |
| LN | 77891-0 | Left ventricular ejection fraction (Teichholz) 2D | | C4036567 | (%, UCUM, "%") |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|---|----------------------|------------------------|------------------------|
| LN | 18049-7 | Left ventricular ejection fraction (Teichholz) MM | | C0801098 | (%, UCUM, "%") |
| LN | 79990-8 | Left ventricular ejection fraction 3D | | C4069718 | (%, UCUM, "%") |
| LN | 79991-6 | Left ventricular ejection fraction biplane (MOD) | | C4069717 | (%, UCUM, "%") |
| LN | 79992-4 | Left ventricular ejection fraction single plane 2C (MOD) | | C4069716 | (%, UCUM, "%") |
| LN | 79993-2 | Left ventricular ejection fraction single plane 4C (MOD) | | C4069715 | (%, UCUM, "%") |
| LN | 79994-0 | Left ventricular end diastolic length 4C | | C4069714 | (cm, UCUM, "cm") |
| LN | 79995-7 | Left ventricular end diastolic volume (3D) | | C4069713 | (ml, UCUM, "ml") |
| LN | 79996-5 | Left ventricular end diastolic volume biplane (MOD) | | C4069712 | (ml, UCUM, "ml") |
| LN | 79997-3 | Left ventricular end diastolic volume biplane (MOD) / BSA | | C4069711 | (ml/m2, UCUM, "ml/m2") |
| LN | 79998-1 | Left ventricular end diastolic volume single plane 2C (MOD) | | C4069710 | (ml, UCUM, "ml") |
| LN | 79999-9 | Left ventricular end diastolic volume single plane 4C (MOD) | | C4069700 | (ml, UCUM, "ml") |
| LN | 80000-3 | Left ventricular end systolic volume (3D) | | C4069699 | (ml, UCUM, "ml") |
| LN | 80001-1 | Left ventricular end systolic volume biplane (MOD) | | C4069698 | (ml, UCUM, "ml") |
| LN | 80002-9 | Left ventricular end systolic volume biplane (MOD) / BSA | | C4069697 | (ml/m2, UCUM, "ml/m2") |
| LN | 80003-7 | Left ventricular end systolic volume single plane 2C (MOD) | | C4069696 | (ml, UCUM, "ml") |
| LN | 80004-5 | Left ventricular end systolic volume single plane 4C (MOD) | | C4069695 | (ml, UCUM, "ml") |
| LN | 80005-2 | Left ventricular endocardial area SAX PM level | | C4069694 | (cm2, UCUM, "cm2") |
| LN | 80006-0 | Left ventricular epicardial area SAX PM level | | C4069693 | (cm2, UCUM, "cm2") |
| LN | 29434-8 | Left ventricular fractional shortening (of minor axis) (2D) | | C0945750 | (%, UCUM, "%") |
| LN | 29435-5 | Left ventricular fractional shortening (of minor axis) (MM) | | C0944886 | (%, UCUM, "%") |
| LN | 80007-8 | Left ventricular internal diastolic dimension - 2D | | C4069692 | (cm, UCUM, "cm") |
| LN | 80008-6 | Left ventricular internal diastolic dimension - MM | | C4069691 | (cm, UCUM, "cm") |
| LN | 80009-4 | Left ventricular internal diastolic dimension / BSA | | C4069690 | (cm/m2, UCUM, "cm/m2") |
| LN | 80010-2 | Left ventricular internal diastolic dimension / BSA | | C4069689 | (cm/m2, UCUM, "cm/m2") |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|---|----------------------|------------------------|--------------------------|
| LN | 80011-0 | Left ventricular internal systolic dimension - 2D | | C4069688 | (cm, UCUM, "cm") |
| LN | 80012-8 | Left ventricular internal systolic dimension - MM | | C4069687 | (cm, UCUM, "cm") |
| LN | 80013-6 | Left ventricular internal systolic dimension / BSA | | C4069686 | (cm/m2, UCUM, "cm/m2") |
| LN | 80014-4 | Left ventricular internal systolic dimension / BSA | | C4069685 | (cm/m2, UCUM, "cm/m2") |
| LN | 18071-1 | Left ventricular isovolumic relaxation time by Doppler | | C0801120 | (ms, UCUM, "ms") |
| LN | 80015-1 | Left ventricular isovolumic relaxation time by TDI | | C4069684 | (ms, UCUM, "ms") |
| LN | 80016-9 | Left ventricular mass (area-length) | | C4069683 | (g, UCUM, "g") |
| LN | 80017-7 | Left ventricular mass (area-length) / BSA | | C4069682 | (g/m2, UCUM, "g/m2") |
| LN | 80018-5 | Left ventricular mass (area-length) / height ^{2.7} | | C4069681 | (g/m2.7, UCUM, "g/m2.7") |
| LN | 80019-3 | Left ventricular mass (dimension method) 2D | | C4069680 | (g, UCUM, "g") |
| LN | 80020-1 | Left ventricular mass (dimension method) 2D / BSA | | C4069679 | (g/m2, UCUM, "g/m2") |
| LN | 80021-9 | Left ventricular mass (dimension method) 2D / height ^{2.7} | | C4069678 | (g/m2.7, UCUM, "g/m2.7") |
| LN | 80022-7 | Left ventricular mass (dimension method) MM | | C4266236 | (g, UCUM, "g") |
| LN | 80023-5 | Left ventricular mass (dimension method) MM / BSA | | C4069671 | (g/m2, UCUM, "g/m2") |
| LN | 80024-3 | Left ventricular mass (dimension method) MM / height ^{2.7} | | C4069670 | (g/m2.7, UCUM, "g/m2.7") |
| LN | 80025-0 | Left ventricular mass (truncated ellipse) | | C4069669 | (g, UCUM, "g") |
| LN | 80026-8 | Left ventricular mass (truncated ellipse) / BSA | | C4069668 | (g/m2, UCUM, "g/m2") |
| LN | 80027-6 | Left ventricular mass (truncated ellipse) / height ^{2.7} | | C4069667 | (g/m2.7, UCUM, "g/m2.7") |
| LN | 80028-4 | Left ventricular outflow tract dimension (2D) | | C4069666 | (cm, UCUM, "cm") |
| LN | 80029-2 | Left ventricular outflow tract Vmax | | C4069665 | (cm/s, UCUM, "cm/s") |
| LN | 80030-0 | Left ventricular outflow tract VTI | | C4069664 | (cm, UCUM, "cm") |
| LN | 80031-8 | Left ventricular posterior wall diastolic thickness | | C4069663 | (cm, UCUM, "cm") |
| LN | 80032-6 | Left ventricular posterior wall diastolic thickness | | C4069662 | (cm, UCUM, "cm") |
| LN | 80033-4 | Left ventricular posterior wall systolic thickness | | C4069661 | (cm, UCUM, "cm") |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|--|----------------------|------------------------|------------------------|
| LN | 80034-2 | Left ventricular posterior wall systolic thickness | | C4069660 | (cm, UCUM, "cm") |
| LN | 80035-9 | Left ventricular stroke volume 3D | | C4069659 | (ml, UCUM, "ml") |
| LN | 80036-7 | LV basal anterior time to S Vmax (Ts-basal anterior) | | C4069658 | (ms, UCUM, "ms") |
| LN | 80037-5 | LV basal anteroseptal time to S Vmax (TS-basal anteroseptal) | | C4069657 | (ms, UCUM, "ms") |
| LN | 80038-3 | LV basal inferior time to S Vmax (Ts-basal inferior) | | C4069656 | (ms, UCUM, "ms") |
| LN | 80039-1 | LV basal lateral time to S Vmax (Ts-basal lateral) | | C4069655 | (ms, UCUM, "ms") |
| LN | 80040-9 | LV basal posterior time to S Vmax (Ts-basal posterior) | | C4069654 | (ms, UCUM, "ms") |
| LN | 80041-7 | LV basal septal time to S Vmax (Ts-basal septal) | | C4069653 | (ms, UCUM, "ms") |
| LN | 80042-5 | LV mid anterior time to S Vmax (Ts-mid anterior) | | C4069652 | (ms, UCUM, "ms") |
| LN | 80043-3 | LV mid anteroseptal time to S Vmax (Ts-mid anteroseptal) | | C4069651 | (ms, UCUM, "ms") |
| LN | 80044-1 | LV mid inferior time to S Vmax (Ts-mid inferior) | | C4069650 | (ms, UCUM, "ms") |
| LN | 80045-8 | LV mid lateral time to S Vmax (Ts-mid lateral) | | C4069649 | (ms, UCUM, "ms") |
| LN | 80046-6 | LV mid posterior time to S Vmax (Ts-mid posterior) | | C4069648 | (ms, UCUM, "ms") |
| LN | 80047-4 | LV mid septal time to S Vmax (Ts-mid septal) | | C4069647 | (ms, UCUM, "ms") |
| LN | 80048-2 | LV Ts-SD (Dyssynchrony Index) | | C4069646 | (ms, UCUM, "ms") |
| LN | 80049-0 | Main pulmonary artery diameter | | C4069645 | (cm, UCUM, "cm") |
| LN | | Main pulmonary artery Vmax | | | (cm/s, UCUM, "cm/s") |
| LN | 80050-8 | Mitral annulus diastolic diameter - A2C | | C4069644 | (cm, UCUM, "cm") |
| LN | 80051-6 | Mitral annulus diastolic diameter - A4C | | C4069643 | (cm, UCUM, "cm") |
| LN | 80052-4 | Mitral annulus diastolic diameter - PLAX | | C4069642 | (cm, UCUM, "cm") |
| LN | 80053-2 | Mitral annulus VTI | | C4069641 | (cm, UCUM, "cm") |
| LN | 80054-0 | Mitral lateral e-prime Vmax | | C4069640 | (cm/s, UCUM, "cm/s") |
| LN | 80057-3 | Mitral regurgitant flow (PISA) | | C4069637 | (ml/s, UCUM, "ml/s") |
| LN | 80055-7 | Mitral regurgitant fraction (Continuity VTI) | | C4069639 | (%, UCUM, "%") |
| LN | 80056-5 | Mitral regurgitant fraction (PISA) | | C4069638 | (%, UCUM, "%") |
| LN | 80058-1 | Mitral regurgitation peak gradient | | C4069636 | (mm[Hg], UCUM, "mmHg") |
| LN | 80059-9 | Mitral regurgitation PISA radius | | C4069635 | (cm, UCUM, "cm") |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|--|----------------------|------------------------|------------------------|
| LN | 80060-7 | Mitral regurgitation PISA velocity | | C4069634 | (cm/s, UCUM, "cm/s") |
| LN | 80061-5 | Mitral regurgitation vena contracta width | | C4069633 | (cm, UCUM, "cm") |
| LN | 80062-3 | Mitral regurgitation Vmax | | C4069632 | (cm/s, UCUM, "cm/s") |
| LN | 80063-1 | Mitral regurgitation volume (Continuity VTI) | | C4069631 | (ml, UCUM, "ml") |
| LN | 80064-9 | Mitral regurgitation volume (PISA) | | C4069630 | (ml, UCUM, "ml") |
| LN | 79911-4 | Mitral septal e-prime Vmax | | C4069780 | (cm/s, UCUM, "cm/s") |
| LN | 80067-2 | Mitral valve area (PISA) | | C4069709 | (cm2, UCUM, "cm2") |
| LN | 80068-0 | Mitral valve area (Planimetry) | | C4069708 | (cm2, UCUM, "cm2") |
| LN | 80069-8 | Mitral valve area (Pressure Half-Time) | | C4069707 | (cm2, UCUM, "cm2") |
| LN | 80065-6 | Mitral valve A-wave duration | | C4069629 | (ms, UCUM, "ms") |
| LN | 80066-4 | Mitral valve A-wave Vmax | | C4069628 | (cm/s, UCUM, "cm/s") |
| LN | 78191-4 | Mitral valve deceleration time | | C4071233 | (ms, UCUM, "ms") |
| LN | 80071-4 | Mitral valve effective regurgitant orifice area (PISA) | | C4069627 | (cm2, UCUM, "cm2") |
| LN | 18038-0 | Mitral valve E-to-A ratio | | C0801087 | (1, UCUM, "no units") |
| LN | 80070-6 | Mitral valve E-wave Vmax | | C4069706 | (cm/s, UCUM, "cm/s") |
| LN | 80072-2 | Mitral valve flow propagation velocity (Vp) | | C4069626 | (cm/s, UCUM, "cm/s") |
| LN | 80073-0 | Mitral valve mean gradient | | C4069625 | (mm[Hg], UCUM, "mmHg") |
| LN | 80074-8 | Mitral valve peak instantaneous gradient | | C4069624 | (mm[Hg], UCUM, "mmHg") |
| LN | 79912-2 | Mitral valve pressure half-time | | C4069779 | (ms, UCUM, "ms") |
| LN | 79913-0 | Mitral valve Vmax | | C4069778 | (cm/s, UCUM, "cm/s") |
| LN | 79914-8 | Mitral valve VTI | | C4069777 | (cm, UCUM, "cm") |
| LN | 78184-9 | Pulmonary vein A-wave duration | | C4071240 | (ms, UCUM, "ms") |
| LN | 79915-5 | Pulmonary vein A-wave Vmax | | C4069776 | (cm/s, UCUM, "cm/s") |
| LN | 79916-3 | Pulmonary vein D-wave Vmax | | C4069775 | (cm/s, UCUM, "cm/s") |
| LN | 79917-1 | Pulmonary vein S-wave Vmax | | C4069774 | (cm/s, UCUM, "cm/s") |
| LN | 79909-8 | Pulmonic annulus diameter | | C4069782 | (cm, UCUM, "cm") |
| LN | 79934-6 | Pulmonic regurgitation end diastolic peak gradient | | C4071399 | (mm[Hg], UCUM, "mmHg") |
| LN | 79918-9 | Pulmonic regurgitation end diastolic velocity | | C4069773 | (cm/s, UCUM, "cm/s") |
| LN | 79919-7 | Pulmonic regurgitation Vmax | | C4069772 | (cm/s, UCUM, "cm/s") |
| LN | 79928-8 | Pulmonic valve acceleration time | | C4069763 | (ms, UCUM, "ms") |
| LN | 18042-2 | Pulmonic valve ejection time | | C0801091 | (ms, UCUM, "ms") |
| LN | 79935-3 | Pulmonic valve peak gradient | | C4071398 | (mm[Hg], UCUM, "mmHg") |
| LN | 79920-5 | Pulmonic valve Vmax | | C4069771 | (cm/s, UCUM, "cm/s") |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|---|----------------------|------------------------|------------------------|
| LN | 79910-6 | Pulmonic valve VTI | | C4069781 | (cm, UCUM, "cm") |
| LN | 80075-5 | Right atrial end systolic area 4C | | C4069623 | (cm2, UCUM, "cm2") |
| LN | 80076-3 | Right atrial major axis dimension 4C | | C4069622 | (cm, UCUM, "cm") |
| LN | 80077-1 | Right atrial minor axis dimension 4C | | C4069621 | (cm, UCUM, "cm") |
| LN | 80078-9 | Right atrial minor axis dimension 4C / BSA | | C4069620 | (cm/m2, UCUM, "cm/m2") |
| LN | 80079-7 | Right pulmonary artery diameter | | C4069619 | (cm, UCUM, "cm") |
| LN | 80080-5 | Right ventricular basal dimension 4C | | C4069618 | (cm, UCUM, "cm") |
| LN | 79929-6 | Right ventricular ejection time | | C4069762 | (ms, UCUM, "ms") |
| LN | 80081-3 | Right ventricular end diastolic area 4C | | C4069617 | (cm2, UCUM, "cm2") |
| LN | 80082-1 | Right ventricular end systolic area 4C | | C4069616 | (cm2, UCUM, "cm2") |
| LN | 79936-1 | Right ventricular fractional area change | | C4071397 | (%, UCUM, "%") |
| LN | 80083-9 | Right ventricular free wall thickness 2D | | C4069615 | (cm, UCUM, "cm") |
| LN | 80084-7 | Right ventricular free wall thickness MM | | C4069614 | (cm, UCUM, "cm") |
| LN | 80085-4 | Right ventricular mid-cavity dimension 4C | | C4069613 | (cm, UCUM, "cm") |
| LN | 80086-2 | Right ventricular myocardial performance index | | C4069612 | (1, UCUM, "no units") |
| LN | 80087-0 | Right ventricular outflow tract diameter at pulmonic valve (RVOT-Distal) | | C4069611 | (cm, UCUM, "cm") |
| LN | 80088-8 | Right ventricular outflow tract diameter at subvalvular level (RVOT-Proximal) | | C4069610 | (cm, UCUM, "cm") |
| LN | 80089-6 | Right ventricular outflow tract VTI | | C4069609 | (cm, UCUM, "cm") |
| LN | 80090-4 | Right ventricular pre-ejection period | | C4069608 | (ms, UCUM, "ms") |
| LN | 77903-3 | Tricuspid Annular Plane Systolic Excursion (TAPSE) | | C4036560 | (cm, UCUM, "cm") |
| LN | 80091-2 | Tricuspid annulus diameter | | C4069607 | (cm, UCUM, "cm") |
| LN | 79937-9 | Tricuspid regurgitation peak gradient | | C4070183 | (mm[Hg], UCUM, "mmHg") |
| LN | 79932-0 | Tricuspid regurgitation PISA radius | | C4069759 | (cm, UCUM, "cm") |
| LN | 79933-8 | Tricuspid regurgitation vena contracta width | | C4071400 | (cm, UCUM, "cm") |
| LN | 79921-3 | Tricuspid regurgitation Vmax | | C4069770 | (cm/s, UCUM, "cm/s") |
| LN | 79922-1 | Tricuspid valve a-prime Vmax | | C4069769 | (cm/s, UCUM, "cm/s") |
| LN | 79923-9 | Tricuspid valve A-wave Vmax | | C4069768 | (cm/s, UCUM, "cm/s") |
| LN | 79930-4 | Tricuspid valve closure to opening time | | C4069761 | (ms, UCUM, "ms") |
| LN | 79931-2 | Tricuspid valve deceleration time | | C4069760 | (ms, UCUM, "ms") |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|------------------------------------|----------------------|------------------------|------------------------|
| LN | 18175-0 | Tricuspid valve diastolic VTI | | C0801224 | (cm, UCUM, "cm") |
| LN | 79924-7 | Tricuspid valve e-prime Vmax | | C4069767 | (cm/s, UCUM, "cm/s") |
| LN | 79925-4 | Tricuspid valve E-wave Vmax | | C4069766 | (cm/s, UCUM, "cm/s") |
| LN | 79938-7 | Tricuspid valve mean gradient | | C4070182 | (mm[Hg], UCUM, "mmHg") |
| LN | 79939-5 | Tricuspid valve peak gradient | | C4070181 | (mm[Hg], UCUM, "mmHg") |
| LN | 18032-3 | Tricuspid valve pressure half-time | | C0801081 | (ms, UCUM, "ms") |
| LN | 79926-2 | Tricuspid valve s-prime Vmax | | C4069765 | (cm/s, UCUM, "cm/s") |
| LN | 79927-0 | Tricuspid valve Vmax | | C4069764 | (cm/s, UCUM, "cm/s") |

CID 12301 Measurement Selection Reasons

The codes in this Context Group describe the reason that a value was selected as the preferred value. E.g. (121411, DCM, "Most Recent Value Chosen") means that the value was selected as preferred because the value was the most recent value.

Type: Extensible
Version: 20161109

Table CID 12301. Measurement Selection Reasons

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--------------------------|----------------------|------------------------|
| SRT | G-A437 | Maximum | 56851009 | C0205289 |
| SRT | R-404FB | Minimum | 255605001 | C0547040 |
| DCM | 121410 | User chosen value | | |
| DCM | 121411 | Most recent value chosen | | |
| DCM | 121412 | Mean value chosen | | |

CID 12302 Echo Finding Observation Types

Type: Non-Extensible
Version: 20161109

Table CID 12302. Echo Finding Observation Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------------------|----------------------|------------------------|
| DCM | 125311 | Structure of the Finding Site | | |
| DCM | 125312 | Behavior of the Finding Site | | |
| SRT | PA-50030 | Hemodynamic Measurements | 44324008 | C0204901 |

CID 12303 Echo Measurement Types

Type: Non-Extensible
Version: 20161109

Table CID 12303. Echo Measurement Types

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|-------------------|----------------------|------------------------|
| DCM | 125313 | Indexed | | |
| SRT | G-D750 | Ratio | 118586006 | C0456603 |
| DCM | 125314 | Fractional Change | | |
| DCM | 125315 | Calculated | | |
| DCM | 113857 | Manual Entry | | |
| DCM | 125316 | Directly measured | | |

CID 12304 Echo Measured Properties

The Units column contains the proper UCUM representation of the recommended units for the measured property

Type: Extensible
Version: 20161109

Table CID 12304. Echo Measured Properties

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|-------------------------------------|----------------------|------------------------|----------------------------|
| LN | 20168-1 | Acceleration Time | | C0802983 | (ms, UCUM, "ms") |
| LN | 59130-5 | Alias Velocity | | C2923486 | (m/s, UCUM, "m/s") |
| SRT | G-A160 | Angle | 1483009 | C0205143 | (deg, UCUM, "deg") |
| SRT | G-A166 | Area | 42798000 | C0205146 | (cm2, UCUM, "cm2") |
| SRT | F-31000 | Blood Pressure | 75367002 | C0005823 | (mm[Hg], UCUM, "mmHg") |
| SRT | F-32070 | Cardiac Ejection Fraction | 70822001 | C0232174 | (%, UCUM, "%") |
| LN | 20217-6 | Deceleration Time | | C0803032 | (ms, UCUM, "ms") |
| SRT | M-02550 | Diameter | 81827009 | C1301886 | (cm, UCUM, "cm") |
| LN | 59120-6 | dP/dt by US | | C2923468 | (mm[Hg]/s, UCUM, "mmHg/s") |
| SRT | G-D217 | Interval | 385673002 | C1272706 | (ms, UCUM, "ms") |
| DCM | 125325 | Dyssynchrony Index | | | (ms, UCUM, "ms") |
| DCM | 125326 | Effective Orifice Area | | | (cm2, UCUM, "cm2") |
| LN | 59093-5 | Epicardial Area | | C2923421 | (cm2, UCUM, "cm2") |
| DCM | 125327 | Excursion Distance | | | (cm, UCUM, "cm") |
| LN | 59132-1 | Fractional Shortening | | C2923490 | (%, UCUM, "%") |
| SRT | G-D7FE | Length | 410668003 | C1444754 | (cm, UCUM, "cm") |
| SRT | G-D701 | Mass | 118538004 | C1306372 | (g, UCUM, "g") |
| DCM | 125328 | Maximum Orifice Area | | | (cm2, UCUM, "cm2") |
| SRT | F-31150 | Mean Blood Pressure | 6797001 | C0428886 | (mm[Hg], UCUM, "mmHg") |
| LN | 20256-4 | Mean Gradient [Pressure] by Doppler | | C0803071 | (mm[Hg], UCUM, "mmHg") |
| LN | 20352-1 | Mean Blood Velocity | | C0803167 | (m/s, UCUM, "m/s") |
| SRT | G-A194 | Minor Axis | 131188004 | C1295724 | (cm, UCUM, "cm") |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID | Units |
|--------------------------|------------|------------------------------------|----------------------|------------------------|--------------------------------|
| LN | 59099-2 | Myocardial Performance Index (Tei) | | C2923433 | (1, UCUM, "no units") |
| LN | 20247-3 | Peak Gradient [Pressure] | | C0803062 | (mm[Hg], UCUM, "mmHg") |
| LN | 34141-2 | Peak Instantaneous Flow Rate | | C1316604 | (ml/s, UCUM, "ml/s") |
| DCM | 125329 | Peak Blood Pressure | | | (mm[Hg], UCUM, "mmHg") |
| LN | 11726-7 | Peak Blood Velocity | | C0551845 | (m/s, UCUM, "m/s") |
| DCM | 125330 | Peak Tissue Velocity | | | (cm/s, UCUM, "cm/s") |
| DCM | 125331 | PISA Radius | | | (cm, UCUM, "cm") |
| LN | 20280-4 | Pressure Half Time | | C0803095 | (ms, UCUM, "ms") |
| SRT | G-0390 | Regurgitant Fraction | 399301000 | C1302309 | (%, UCUM, "%") |
| DCM | 125332 | Regurgitation Jet Area | | | (cm2, UCUM, "cm2") |
| DCM | 125333 | Regurgitation Jet Width | | | (cm, UCUM, "cm") |
| LN | 59090-1 | Internal Dimension | | C2923417 | (cm, UCUM, "cm") |
| LN | 59089-3 | Thickness | | C2923416 | (cm, UCUM, "cm") |
| SRT | F-32120 | Stroke Volume | 90096001 | C0038455 | (ml, UCUM, "ml") |
| SRT | F-02692 | Vascular Resistance | 251271006 | C0429119 | (dyn.s/cm5, UCUM, "dyn.s/cm5") |
| LN | 20354-7 | Velocity Time Integral | | C0803169 | (cm, UCUM, "cm") |
| DCM | 125334 | Vena Contracta Width | | | (cm, UCUM, "cm") |
| SRT | G-D705 | Volume | 118565006 | C0449468 | (ml, UCUM, "ml") |
| LN | 33878-0 | Volume Flow Rate | | C1316341 | (ml/s, UCUM, "ml/s") |

CID 12305 Basic Echo Anatomic Sites

Type: Extensible
Version: 20161109

Table CID 12305. Basic Echo Anatomic Sites

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|---------------------------------------|----------------------|------------------------|
| SRT | T-42110 | Aortic Root | 8128003 | C0549113 |
| SRT | T-42102 | Aortic Sinotubular Junction | 443167003 | C2733424 |
| SRT | T-35400 | Aortic Valve | 34202007 | C0003501 |
| SRT | T-35410 | Aortic Valve Ring | 77583004 | C0225957 |
| SRT | T-42100 | Ascending Aorta | 54247002 | C0003956 |
| SRT | T-48710 | Inferior vena cava | 64131007 | C0042458 |
| SRT | T-32410 | Interventricular septum | 589001 | C0225870 |
| SRT | G-0392 | Lateral Mitral Annulus | 399086000 | C1302198 |
| SRT | T-32300 | Left Atrium | 82471001 | C0225860 |
| SRT | T-44400 | Left Pulmonary Artery | 50408007 | C0226069 |
| SRT | T-32600 | Left Ventricle | 87878005 | C0225897 |
| SRT | T-32619 | Left ventricle basal anterior segment | 264850008 | C0555926 |

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|--|----------------------|------------------------|
| SRT | R-1007A | Left ventricle basal anterolateral segment | 396654005 | C1300911 |
| SRT | R-10075 | Left ventricle basal anteroseptal segment | 396482007 | C1300766 |
| SRT | T-32615 | Left ventricle basal inferior segment | 264846001 | C0555929 |
| SRT | R-10079 | Left ventricle basal inferolateral segment | 396652009 | C1300909 |
| SRT | R-10076 | Left ventricle basal inferoseptal segment | 396646008 | C1300903 |
| SRT | T-32617 | Left ventricle mid anterior segment | 264848000 | C0555925 |
| SRT | R-1007C | Left ventricle mid anterolateral segment | 396656007 | C1300913 |
| SRT | R-10077 | Left ventricle mid anteroseptal segment | 396647004 | C1300904 |
| SRT | T-32616 | Left ventricle mid inferior segment | 264847005 | C0555924 |
| SRT | R-1007B | Left ventricle mid inferolateral segment | 396655006 | C1300912 |
| SRT | R-10078 | Left ventricle mid inferoseptal segment | 396649001 | C1300906 |
| SRT | T-32620 | Left Ventricle Myocardium | 49848007 | C0225899 |
| SRT | T-32650 | Left Ventricle Outflow Tract | 13418002 | C0225912 |
| SRT | G-0391 | Medial Mitral Annulus | 399093001 | C1302199 |
| SRT | T-35310 | Mitral Annulus | 65197004 | C0225947 |
| SRT | T-35300 | Mitral Valve | 91134007 | C0026264 |
| SRT | T-44000 | Pulmonary Artery | 81040000 | C0034052 |
| SRT | T-4858F | Pulmonary Vein | 430757002 | C2317442 |
| SRT | T-35210 | Pulmonic Ring | 90318009 | C0225935 |
| SRT | T-35200 | Pulmonic Valve | 39057004 | C0034086 |
| SRT | T-32200 | Right Atrium | 73829009 | C0225844 |
| SRT | T-44200 | Right Pulmonary Artery | 78480002 | C0226054 |
| SRT | T-32500 | Right Ventricle | 53085002 | C0225883 |
| DCM | 125319 | Right Ventricle Anterior Wall | | |
| SRT | T-32503 | Right Ventricle Midventricular Segment | 277634007 | C0456872 |
| SRT | T-32550 | Right Ventricle Outflow Tract | 44627009 | C0225892 |
| DCM | 125317 | Right Ventricle Outflow Tract, Distal | | |
| DCM | 125318 | Right Ventricle Outflow Tract, Proximal | | |
| SRT | T-32504 | Right Ventricle Basal Segment | 277635008 | C0456873 |
| SRT | T-35110 | Tricuspid Annulus | 113259005 | C0225926 |
| SRT | T-35100 | Tricuspid Valve | 46030003 | C0040960 |
| SRT | T-44100 | Trunk of pulmonary artery | 45341000 | C0034052 |

CID 12306 Echo Flow Directions

Type: Non-Extensible
Version: 20161109

Table CID 12306. Echo Flow Directions

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|----------------------|----------------------|------------------------|
| SRT | R-42047 | Antegrade Direction | 263677008 | C0589502 |
| SRT | R-42E61 | Retrograde Direction | 312004007 | C0439784 |

CID 12307 Cardiac Phases and Time Points

The following codes are intended for use in a post-coordinated context. For example, the E-wave refers to the period of diastolic rapid inflow as experienced at the post-coordinated finding site, such as the mitral valve or the tricuspid valve.

The table is organized in time sequence based on the start of the coded period.

As indicated in Annex G, the e-prime period used for tissue velocity measurements is synonymous with the E-wave period used for blood velocity measurements.

Type: Extensible
Version: 20161109

Table CID 12307. Cardiac Phases and Time Points

| Coding Scheme Designator | Code Value | Code Meaning | SNOMED-CT Concept ID | UMLS Concept Unique ID |
|--------------------------|------------|------------------------------------|----------------------|------------------------|
| DCM | 125320 | Electromechanical Delay | | |
| DCM | 125321 | Pre-ejection Period | | |
| SRT | F-32020 | Systole | 111973004 | C0039155 |
| SRT | R-40B12 | Ventricular Isovolumic Contraction | 444379001 | C2732703 |
| SRT | R-40B11 | Ventricular Ejection (S-wave) | 444371003 | C2733340 |
| SRT | R-FAB5B | End Systole | 416430001 | C1563001 |
| SRT | F-32010 | Diastole | 90892000 | C0012000 |
| SRT | R-40B10 | Ventricular Isovolumic Relaxation | 444361000 | C2733323 |
| DCM | 125322 | Atrial Diastolic Filling (D-wave) | | |
| SRT | R-40B1C | Diastolic Rapid Inflow (E-wave) | 444392003 | C2732785 |
| SRT | R-40B21 | Diastasis | 444469002 | C2733177 |
| SRT | F-32030 | Atrial Systole (A-wave) | 59972007 | C0520865 |
| DCM | 125323 | AR-wave | | |
| SRT | F-32011 | End Diastole | 255254001 | C0442709 |
| DCM | 125324 | Full Cardiac Cycle | | |

C Acquisition Context Module, Protocol and Workflow Context Templates (Normative)

This Annex specifies the content of Templates for Acquisition, Protocol and Workflow Context required by DICOM IODs.

Templates for Acquisition, Protocol and Workflow Context

TID 3401 ECG Acquisition Context

Type: Extensible
Order: Non-Significant
Root: No

Table TID 3401. ECG Acquisition Context

| | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|---------|---|-----|----------|-----------|--|
| 1 | CODE | DT (10:11345, MDC, "Lead System") | 1 | U | | BCID 3263 "Electrode Placement Values" |
| 2 | CODE | DT (109054, DCM, "Patient State") | 1 | U | | BCID 3262 "ECG Patient State Values" |
| 3 | NUMERIC | DT (109055, DCM, "Protocol Stage") | 1 | U | | UNITS = EV ({stage}, UCUM, "stage") |
| 4 | CODE | DT (109056, DCM, "Stress Protocol") | 1 | U | | BCID 3261 "Stress Protocols" |
| 5 | NUMERIC | DCID 3690 "ECG Control Variables Numeric" | 1-n | U | | |
| 6 | TEXT | DCID 3691 "ECG Control Variables Text" | 1-n | U | | |

TID 3403 Catheterization Acquisition Context

Type: Extensible
Order: Non-Significant
Root: No

Table TID 3403. Catheterization Acquisition Context

| | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|---------|---|----|----------|-----------|--|
| 1 | CODE | EV (G-72BB, SRT, "Catheterization Procedure Phase") | 1 | U | | BCID 3250 "Catheterization Procedure Phase" |
| 2 | CODE | EV (109058, DCM, "Contrast Phase") | 1 | U | | BCID 3600 "Relative Times" |
| 3 | CODE | EV (109059, DCM, "Physiological challenges") | 1 | U | | BCID 3271 "Hemodynamic Physiological Challenges" |
| 4 | NUMERIC | EV (109060, DCM, "Procedure Step Number") | 1 | U | | UNITS = EV ({step}, UCUM, "step") |
| 5 | TEXT | EV (121124, DCM, "Procedure Action ID") | 1 | U | | |

Note

See TID 3100 "Procedure Action" in Annex A for description of Procedure Action ID used in Row 5.

TID 3450 Cardiac Electrophysiology Acquisition Context

Type: Extensible
 Order: Non-Significant
 Root: No

Table TID 3450. Cardiac Electrophysiology Acquisition Context

| | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|------|--|----|----------|-----------|---|
| 1 | CODE | EV (109061, DCM, "EP Procedure Phase") | 1 | U | | BCID 3254 "Electrophysiology Procedure Phase" |
| 2 | NUM | EV (109060, DCM, "Procedure Step Number") | 1 | U | | UNITS = EV ({step}, UCUM, "step") |
| 3 | TEXT | EV (109063, DCM, "Pulse train definition") | 1 | U | | |

TID 3460 Projection Radiography Acquisition Context

Type: Extensible
 Order: Non-Significant
 Root: No

Table TID 3460. Projection Radiography Acquisition Context

| | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|------|--|-----|----------|-----------|---|
| 1 | CODE | DT (F-047E7, SRT, "Functional observable") | 1-n | U | | BCID 91 "Functional Condition Present During Acquisition" |
| 2 | CODE | DT (F-043E6, SRT, "Respiration Observable") | 1 | U | | BCID 3823 "Respiratory Status" |
| 3 | CODE | DT (F-13006, SRT, "Joint position") | 1 | U | | BCID 92 "Joint Position During Acquisition" |
| 4 | CODE | DT (109132, DCM, "Joint positioning method") | 1 | U | | BCID 93 "Joint Positioning Method" |
| 5 | CODE | DT (109133, DCM, "Physical force") | 1-n | U | | BCID 94 "Physical Force Applied During Acquisition" |

TID 3470 NM/PET Acquisition Context

Type: Extensible
 Order: Non-Significant
 Root: No

Table TID 3470. NM/PET Acquisition Context

| | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|---------|--|----|----------|-----------|---|
| 1 | CODE | DT (109054, DCM, "Patient State") | 1 | M | | DCID 3101 "Cardiac Procedural State Values" |
| 2 | INCLUDE | BTID 3471 "PET Covariates Acquisition Context" | 1 | U | | |

TID 3471 PET Covariates Acquisition Context

Type: Extensible
 Order: Non-Significant
 Root: No

Table TID 3471. PET Covariates Acquisition Context

| | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|---------|---|----|----------|--|-------------------------------------|
| 1 | NUMERIC | (14749-6, LN, "Glucose") | 1 | U | | UNITS = EV (mmol/l, UCUM, "mmol/l") |
| 2 | DATE | (127857, DCM, "Glucose Measurement Date") | 1 | MC | IFF Row 1 is present and does not contain Observation DateTime (0040,A032) | |
| 3 | TIME | (127858, DCM, "Glucose Measurement Time") | 1 | MC | IFF Row 1 is present and does not contain Observation DateTime (0040,A032) | |

Content Item Descriptions

| | | |
|-------|--------------------------|--|
| Row 2 | Glucose Measurement Date | In an earlier edition of the standard, an incorrect DCM code was used for this concept, which was already assigned as (109081, DCM, "Prospective gating"). |
| Row 3 | Glucose Measurement Time | In an earlier edition of the standard, an incorrect DCM code was used for this concept, which was already assigned as (109082, DCM, "Retrospective gating"). |

TID 8001 Specimen Preparation

This Template describes a single specimen preparation step.

Type: Extensible
Order: Significant
Root: No

Table TID 8001. Specimen Preparation

| | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----------|---|----|----------|---|--|
| 1 | TEXT | EV (121041, DCM, "Specimen Identifier") | 1 | M | | |
| 2 | TEXT | EV (111724, DCM, "Issuer of Specimen Identifier") | 1 | U | | |
| 3 | CODE | EV (111701, DCM, "Processing type") | 1 | M | | DCID 8111 "Specimen Preparation Procedure" |
| 4 | DATETIME | DT (111702, DCM, "DateTime of processing") | 1 | U | | |
| 5 | TEXT | DT (111703, DCM, "Processing step description") | 1 | U | | |
| 6 | CODE | DT (111703, DCM, "Processing step description") | 1 | U | | DCID 8113 "Specimen Preparation Steps" |
| 7 | CODE | DT (P3-02000, SRT, "Specimen Collection") | 1 | MC | IFF Row 3 Processing Type value is (P3-02000, SRT, "Specimen Collection") | BCID 8109 "Specimen Collection Procedure" |
| 8 | INCLUDE | DTID 8002 "Specimen Sampling" | 1 | MC | IFF Row 3 Processing Type value is (P3-4000A, SRT, "Specimen Sampling") | |
| 9 | INCLUDE | DTID 8003 "Specimen Staining" | 1 | MC | IFF Row 3 Processing type value is (P3-00003, SRT, "Staining") | |

| | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|------|---------------------------------------|----|----------|-----------|--------------------------------------|
| 10 | CODE | DT (F-6221B, SRT, "Tissue Fixative") | 1 | U | | BCID 8114 "Specimen Fixatives" |
| 11 | CODE | DT (F-6221A, SRT, "Embedding medium") | 1 | U | | BCID 8115 "Specimen Embedding Media" |

Content Item Descriptions

| | |
|-----------|--|
| Row 1 | For sampling steps (which create a child specimen from a parent), the ID is that of the child specimen. For other preparation steps, the ID of a specimen does not change during the processing. |
| Rows 5, 6 | The issuer shall be formatted in accordance with the HL7v2 Hierarchic Designator Data Type. That format is [<i>Namespace ID</i>] ^ [<i>Universal ID</i> ^ <i>Universal ID Type</i>], where <i>Namespace ID</i> identifies an entity within the local namespace or domain, <i>Universal ID</i> is a universal or unique identifier for an entity, and <i>Universal ID Type</i> specifies the standard format of the Universal ID (see HL7 v2 Section 2.A.33). |

TID 8002 Specimen Sampling

Type: Extensible
Order: Significant
Root: No

Table TID 8002. Specimen Sampling

| | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|---------|--|----|----------|-----------|---|
| 1 | CODE | DT (111704, DCM, "Sampling Method") | 1 | M | | BCID 8110 "Specimen Sampling Procedure" |
| 2 | TEXT | DT (111705, DCM, "Parent Specimen Identifier") | 1 | M | | |
| 3 | TEXT | DT (111706, DCM, "Issuer of Parent Specimen Identifier") | 1 | U | | |
| 4 | CODE | DT (111707, DCM, "Parent specimen type") | 1 | M | | BCID 8103 "Anatomic Pathology Specimen Types" |
| 5 | TEXT | DT (111708, DCM, "Position Frame of Reference") | 1 | U | | |
| 6 | TEXT | DT (111709, DCM, "Location of sampling site") | 1 | U | | |
| 7 | NUMERIC | DT (111710, DCM, "Location of sampling site X offset") | 1 | U | | |
| 8 | NUMERIC | DT (111711, DCM, "Location of sampling site Y offset") | 1 | U | | |
| 9 | NUMERIC | DT (111712, DCM, "Location of sampling site Z offset") | 1 | U | | |
| 10 | IMAGE | DT (111709, DCM, "Location of sampling site") | 1 | U | | |

Content Item Descriptions

| | |
|-----------|--|
| Rows 5, 6 | The Issuer of Specimen Identifier shall be formatted in accordance with the HL7 v2 Hierarchic Designator data type (see HL7 v2.6 Section 2.A.33), i.e., [<i>Namespace ID</i>] ^ [<i>Universal ID</i> ^ <i>Universal ID Type</i>] |
| Row 5 | Description of coordinate system and origin reference point on parent specimen or parent specimen container used for localizing the sampling site |

| | |
|----------|---|
| Rows 7-9 | The X, Y and Z locations are used as needed to describe the sampling site; not all may be needed. E.g., resection from 10 cm along the colon may be described as only a Y dimension location. |
| Row 10 | Reference to image of parent specimen localizing the sampling site; may include referenced Presentation State object |

TID 8003 Specimen Staining

Type: Extensible
Order: Significant
Root: No

Table TID 8003. Specimen Staining

| | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|------|-------------------------------------|-----|----------|----------------------|-----------------------------|
| 1 | CODE | DT (G-C350, SRT, "Using substance") | 1-n | MC | IF Row 2 not present | DCID 8112 "Specimen Stains" |
| 2 | TEXT | DT (G-C350, SRT, "Stain") | 1 | MC | IF Row 1 not present | |

TID 8004 Specimen Localization

Type: Extensible
Order: Significant
Root: No

Table TID 8004. Specimen Localization

| | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|-----------|---|----|----------|-----------|---|
| 1 | TEXT | DT (111708, DCM, "Position Frame of Reference") | 1 | U | | |
| 2 | TEXT | DT (111718, DCM, "Location of Specimen") | 1 | U | | |
| 3 | NUMERIC | DT (111719, DCM, "Location of Specimen X offset") | 1 | U | | |
| 4 | NUMERIC | DT (111720, DCM, "Location of Specimen Y offset") | 1 | U | | |
| 5 | NUMERIC | DT (111721, DCM, "Location of Specimen Z offset") | 1 | U | | |
| 6 | IMAGE | DT (111718, DCM, "Location of Specimen") | 1 | U | | |
| 7 | COMPOSITE | DT (111718, DCM, "Location of Specimen") | 1 | U | | Presentation State SOP Instance reference |
| 8 | TEXT | DT (111723, DCM, "Visual Marking of Specimen") | 1 | U | | |

Content Item Descriptions

| | |
|----------|--|
| Row 1 | Description of coordinate system and origin reference point used for localizing the Specimen. The value "CURRENT IMAGE " identifies the frame of reference as the pixel space of the Image SOP Instance in which this Content Item occurs. |
| Row 2 | Description of specimen location, either in absolute terms or relative to the Position Frame Reference of Row 1 |
| Rows 3-5 | Location of specimen (nominal center) relative to the Position Frame Reference of Row 1. The Content Items include the units of measurement (e.g., mm). If Row 1 value is "CURRENT IMAGE ", measurement shall be from the top left hand corner of the Pixel Data of the SOP Instance, using units of {{pixel}}, UCUM, "Pixels"). |

| | |
|-------|---|
| Row 6 | Reference to image of container localizing the specimen; may include referenced Presentation State object |
| Row 7 | Reference to Presentation State object for this SOP Instance, with annotations localizing the specimen |
| Row 8 | Description of visual distinguishing identifiers, e.g., ink, or a particular shape of the specimen |

TID 8010 Slide Imaging Parameters

This Template describes protocol parameters for a Slide Imaging Procedure Step. As an extensible Template, additional items may be included using other concept names from standard or private coding schemes.

Type: Extensible
Order: Significant
Root: No

Table TID 8010. Slide Imaging Parameters

| | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|---------|--|-----|----------|-----------|---|
| 1 | CODE | EV (112706, DCM, "Illumination Method") | 1-n | U | | DCID 8123 "Microscopy Illumination Method" |
| 2 | NUMERIC | EV (112707, DCM, "Number of focal planes") | 1 | UC | XOR Row 3 | UNITS = EV ({planes}, UCUM, "planes") |
| 3 | CODE | EV (112707, DCM, "Number of focal planes") | 1 | UC | XOR Row 2 | DT (112714, DCM, "Multiple planes") |
| 4 | NUMERIC | EV (112708, DCM, "Focal plane Z offset") | 1-n | U | | UNITS = EV (um, UCUM, "um") |
| 5 | CODE | EV (112709, DCM, "Magnification selection") | 1 | U | | DCID 8132 "Magnification Selection" |
| 6 | NUMERIC | EV (112710, DCM, "Illumination wavelength") | 1-n | U | | UNITS = EV (nm, UCUM, "nm") |
| 7 | CODE | EV (112711, DCM, "Illumination spectral band") | 1-n | U | | DCID 8122 "Microscopy Illuminator and Sensor Color" |
| 8 | CODE | EV (112712, DCM, "Optical filter type") | 1-n | U | | DCID 8124 "Microscopy Filter" |
| 9 | CODE | EV (112713, DCM, "Tissue selection method") | 1 | U | | DCID 8133 "Tissue Selection" |

TID 8200 Radiology Reading Task Parameters

This Template describes parameters for a radiology reading task.

Note

Specialty to Read is nested inside Modality to Read in order to facilitate C-FIND matching against both Modality and Specialty.

Type: Extensible
Order: Non-Significant

Table TID 8200. Radiology Reading Task Parameters

| | NL | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|------|--------------------------------------|-----|----------|-----------|------------------------------------|
| 1 | | CODE | EV (128002, DCM, "Modality to Read") | 1 | U | | DCID 29 "Acquisition Modality" |
| 2 | > | CODE | EV (128003, DCM, "Reader Specialty") | 1 | U | | DCID 7449 "Reader Specialty" |
| 3 | | CODE | EV (128004, DCM, "Modality to Read") | 1-n | U | | DCID 9233 "Requested Report Types" |

TID 15100 Contrast Agent/Pre-Medication Protocol Context

This Template specifies medications to be administered prior to a diagnostic imaging protocol, imaging contrast agents to be used in the protocol, and/or bolus agents to be used in the protocol. Each medication or agent may be modified by a specified route of administration. The top level Content Items of this Template may appear in any order in the Protocol Context Sequence, hence the order in this Template is not significant. There may be significance in the order in which the Content Items are included in the Protocol Context Sequence, e.g., the requested order in which pre-medications are to be administered.

Type: Extensible
Order: Non-Significant
Root: No

Table TID 15100. Contrast Agent/Pre-Medication Protocol Context

| | NL | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|------|---|-----|----------|-----------|---------------------------------------|
| 1 | | CODE | EV (123011, DCM, "Contrast/Bolus Agent") | 1-n | U | | BCID 12 "Radiographic Contrast Agent" |
| 2 | > | CODE | EV (G-C340, SRT, "Route of Administration") | 1 | U | | BCID 11 "Route of Administration" |
| 3 | | CODE | EV (123012, DCM, "Pre-Medication") | 1-n | U | | |
| 4 | > | CODE | EV (G-C340, SRT, "Route of Administration") | 1 | U | | BCID 11 "Route of Administration" |

TID 15101 NM/PET Protocol Context

Type: Extensible
Order: Significant
Root: No

Table TID 15101. NM/PET Protocol Context

| | NL | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|----------|--|----|----------|-----------|--|
| 1 | | CODE | EV (F-61FDB, SRT, "Radiopharmaceutical agent") | 1 | M | | BCID 25 "Radiopharmaceuticals" BCID 4021 "PET Radiopharmaceutical" |
| 2 | > | CODE | EV (C-10072, SRT, "Radionuclide") | 1 | U | | BCID 18 "Isotopes in Radiopharmaceuticals" BCID 4020 "PET Radionuclide" |
| 3 | > | UIDREF | EV (113503, DCM, "Radiopharmaceutical Administration Event UID") | 1 | U | | |
| 4 | > | DATETIME | EV (123003, DCM, "Radiopharmaceutical Start DateTime") | 1 | U | | |
| 5 | > | DATETIME | EV (123004, DCM, "Radiopharmaceutical Stop DateTime") | 1 | U | | |
| 6 | > | NUMERIC | EV (123005, DCM, "Radiopharmaceutical Volume") | 1 | U | | UNITS = DT (cm3, UCUM, "cm3") |

| | NL | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|----|----|---------|---|----|----------|---|--|
| 7 | > | NUMERIC | EV (123006, DCM, "Radionuclide Total Dose") | 1 | U | | UNITS = DT (Bq, UCUM, "Bq") |
| 8 | > | NUMERIC | EV (123007, DCM, "Radiopharmaceutical Specific Activity") | 1 | U | | UNITS = DT (Bq/mol, UCUM, "Bq/mol") |
| 9 | > | CODE | EV (G-C340, SRT, "Route of Administration") | 1 | U | | BCID 11 "Route of Administration" |
| 10 | > | NUMERIC | EV (123009, DCM, "Radionuclide Syringe Counts") | 1 | U | | UNITS = DT ({counts}/s, UCUM "counts/s") |
| 11 | > | NUMERIC | EV (123010, DCM, "Radionuclide Residual Syringe Counts") | 1 | U | | UNITS = DT ({counts}/s, UCUM "counts/s") |
| 12 | | NUMERIC | EV (14749-6, LN, "Glucose") | 1 | U | | UNITS = EV (mmol/l, UCUM, "mmol/l") |
| 13 | > | DATE | EV (127857, DCM, "Glucose Measurement Date") | 1 | MC | IFF Row 12 is present and does not contain Observation DateTime (0040,A032) | |
| 14 | > | TIME | EV (127858, DCM, "Glucose Measurement Time") | 1 | MC | IFF Row 12 is present and does not contain Observation DateTime (0040,A032) | |

Content Item Descriptions

| | | |
|--------|--------------------------|--|
| Row 13 | Glucose Measurement Date | In an earlier edition of the standard, an incorrect DCM code was used for this concept, which was already assigned as (109081, DCM, "Prospective gating"). |
| Row 14 | Glucose Measurement Time | In an earlier edition of the standard, an incorrect DCM code was used for this concept, which was already assigned as (109082, DCM, "Retrospective gating"). |

TID 15200 JJ1017 Protocol Context

This Template defines protocol context concepts to support the requirements of Japanese Guideline JJ1017. This is expected to be used with Scheduled or Performed Protocol Codes from Coding Scheme JJ1017-16M defined in Guideline JJ1017.

Type: Extensible
Order: Significant
Root: No

Table TID 15200. JJ1017 Protocol Context

| | NL | VT | Concept Name | VM | Req Type | Condition | Value Set Constraint |
|---|----|------|--|----|----------|-----------|--|
| 1 | | CODE | EV (123016, DCM, "Imaging Conditions") | 1 | M | | Baseline terms from Coding Scheme JJ1017-16S of JJ1017 version 3.0 |

D DICOM Controlled Terminology Definitions (Normative)

This Annex specifies the meanings of codes defined in DICOM, either explicitly or by reference to another part of DICOM or an external reference document or standard.

DICOM Code Definitions (Coding Scheme Designator "DCM" Coding Scheme Version "01")

Table D-1. DICOM Controlled Terminology Definitions

| Code Value | Code Meaning | Definition |
|------------|---------------------------------------|--|
| ARCHIVE | Archive | A device, process or method that stores images and other objects for a prolonged period of time. |
| AR | Autorefracton | An acquisition device, process or method that measures autorefracton. |
| AS | <i>Angioscopy</i> | <i>An acquisition device, process or method that records images during angioscopy.</i> |
| AU | Audio | An acquisition device, process or method that records audio. |
| BDUS | Ultrasound Bone Densitometry | An acquisition device, process or method that performs ultrasound bone densitometry. |
| BI | Biomagnetic imaging | An acquisition device, process or method that performs biomagnetic imaging. |
| BMD | Bone Mineral Densitometry | An acquisition device, process or method that performs bone mineral densitometry by X-Ray, including dual-energy X-Ray absorptiometry (DXA) and morphometric X-Ray absorptiometry (MXA). |
| CAD | Computer Assisted Detection/Diagnosis | An image processing device, process or method that performs computer assisted detection or diagnosis. |
| CAPTURE | Image Capture | An acquisition device, process or method that performs image capture, includes video capture. |
| CD | <i>Color flow Doppler</i> | <i>An acquisition device, process or method that performs color flow Doppler.</i> |
| CF | <i>Cinefluorography</i> | <i>An acquisition device, process or method that performs cinefluorography.</i> |
| COMP | Computation Server | A device, process or method that performs computation as a service; includes radiotherapy planning. |
| CP | <i>Culposcopy</i> | <i>An acquisition device, process or method that records images during culposcopy.</i> |
| CR | Computed Radiography | An acquisition device, process or method that performs computed radiography. |
| CS | <i>Cystoscopy</i> | <i>An acquisition device, process or method that records images during cystoscopy.</i> |
| CT | Computed Tomography | An acquisition device, process or method that performs computed tomography. |
| DD | <i>Duplex Doppler</i> | <i>An acquisition device, process or method that performs duplex Doppler.</i> |
| DF | <i>Digital fluoroscopy</i> | <i>An acquisition device, process or method that performs digital fluoroscopy.</i> |
| DG | Diaphanography | An acquisition device, process or method that performs diaphanography. |
| DM | <i>Digital microscopy</i> | <i>An acquisition device, process or method that performs digital microscopy.</i> |

| Code Value | Code Meaning | Definition | |
|------------|--|---|----------------------|
| DOCD | Document Digitizer Equipment | A device, process or method that digitizes hardcopy documents and imports them. | |
| DS | Digital Subtraction Angiography | An acquisition device, process or method that performs digital subtraction angiography. | Reti Rep "X-F |
| DSS | Department System Scheduler | A department-based information system (for instance, Radiology or Laboratory) that provides functions related to the management of orders received from external systems or through the department system's user interface. This definition matches that of the DSS/OF Actor in the IHE Scheduled Workflow (SWF) Profile. | |
| DX | Digital Radiography | An acquisition device, process or method that performs digital radiography. | |
| EC | Echocardiography | An acquisition device, process or method that performs echocardiography. | Reti Rep "Ultr |
| ECG | Electrocardiography | An acquisition device, process or method that performs electrocardiography. | |
| EPS | Cardiac Electrophysiology | An acquisition device, process or method that performs cardiac electrophysiology. | |
| ES | Endoscopy | An acquisition device, process or method that records images during endoscopy. | |
| F | Female | Female sex. | |
| FA | Fluorescein angiography | An acquisition device, process or method that performs fluorescein angiography. | Reti Rep "Op |
| FC | Female changed to Male | Female sex changed to Male sex. | |
| FILMD | Film Digitizer | A device, process or method that performs film digitization. | |
| FP | Female Pseudohermaphrodite | Female Pseudohermaphrodite. | |
| FS | Fundoscopy | An acquisition device, process or method that records images during funduscopy. | Reti |
| GM | General Microscopy | An acquisition device, process or method that performs general microscopy. | |
| H | Hermaphrodite | Hermaphrodite. | |
| HC | Hard Copy | A device, process or method that creates images to be printed as hard copy. | |
| HD | Hemodynamic Waveform | An acquisition device, process or method that records hemodynamic waveforms. | |
| IO | Intra-oral Radiography | An acquisition device, process or method that performs intra-oral radiography. | |
| IVOCT | Intravascular Optical Coherence Tomography | An acquisition device, process or method that performs intravascular optical coherence tomography | |
| IVUS | Intravascular Ultrasound | An acquisition device, process or method that performs intravascular ultrasound. | |
| KER | Keratometry | An acquisition device, process or method that performs keratometry. | |
| KO | Key Object Selection | A device, process or method that creates Key Object Selection objects. | |
| LEN | Lensometry | An acquisition device, process or method that performs lensometry. | |
| LOG | Procedure Logging | A device, process or method that performs procedure Logging; includes cath lab logging. | |
| LP | Laparoscopy | An acquisition device, process or method that records images during laparoscopy. | Reti |
| LS | Laser surface scan | An acquisition device, process or method that performs laser surface scanning. | |
| M | Male | Male sex. | |
| MA | Magnetic resonance angiography | An acquisition device, process or method that performs magnetic resonance angiography. | Reti Rep "Ma |
| MC | Male changed to Female | Male sex changed to Female sex. | |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| MCD | Media Creation Device | A device, process or method that creates DICOM PS3.10 interchange media. E.g., a CD creator that is managed by the Media Creation Management Service Class. |
| MEDIM | Portable Media Importer Equipment | A device, process or method that retrieves and imports objects from Interchange Media. |
| MG | Mammography | An acquisition device, process or method that performs mammography. |
| MP | Male Pseudohermaphrodite | Male Pseudohermaphrodite. |
| MR | Magnetic Resonance | An acquisition device, process or method that performs magnetic resonance imaging. |
| MS | <i>Magnetic resonance spectroscopy</i> | <i>An acquisition device, process or method that performs magnetic resonance spectroscopy.</i> |
| NEARLINE | Nearline | Instances need to be retrieved from relatively slow media such as optical disk or tape. |
| NM | Nuclear Medicine | An acquisition device, process or method that performs nuclear medicine imaging. |
| OAM | Ophthalmic Axial Measurements | An acquisition device, process or method that measures the axial length of the eye. |
| OCT | Optical Coherence Tomography | An acquisition device, process or method that uses an interferometric, non-invasive optical tomographic technique to image 2D slices and 3D volumes of tissue using visible and near visible frequencies. |
| OFFLINE | Offline | Instances need to be retrieved by manual intervention. |
| ONLINE | Online | Instances are immediately available. |
| OP | Ophthalmic photography | An acquisition device, process or method that performs ophthalmic photography. |
| OPM | Ophthalmic Mapping | An acquisition device, process or method that measures corneal topography, corneal or retinal thickness, and other similar parameters that are typically displayed as maps. |
| OPR | Ophthalmic Refraction | An acquisition device, process or method that measures the refractive characteristics of the eye. |
| OPT | Ophthalmic Tomography | An acquisition device, process or method that performs tomography of the eye that is based on light and optical principles. Tomography based on other principles, such as ultrasound, is excluded. |
| OPV | Ophthalmic Visual Field | An acquisition device, process or method that measures visual fields and perform visual perimetry. |
| OSS | Optical Surface Scanner | An acquisition device, process or method that performs optical surface scanning. |
| OT | Other Modality | Other Modality device. |
| PR | Presentation State | A device, process or method that creates Presentation State objects. |
| PRINT | Hard Copy Print Server | Hard Copy Print Server; includes printers with embedded DICOM print server. |
| PT | Positron emission tomography | An acquisition device, process or method that performs positron emission tomography (PET). |
| PX | Panoramic X-Ray | An acquisition device, process or method that performs panoramic X-Rays. |
| REG | Registration | An image processing device, process or method that creates Registration objects. |
| RF | Radiofluoroscapy | An acquisition device, process or method that performs radiofluoroscapy. |
| RG | Radiographic imaging | An acquisition device, process or method that performs radiographic imaging (conventional film/screen). |
| RT | Radiation Therapy Device | A device, process or method that delivers radiation therapy; includes linear accelerator, proton therapy. |
| RTDOSE | Radiotherapy Dose | A device, process or method that records radiotherapy dose. |
| RTIMAGE | Radiotherapy Image | An acquisition device, process or method that performs radiotherapy imaging; includes portal imaging. |
| RTPLAN | Radiotherapy Plan | A device, process or method that produces radiotherapy plans. |

| Code Value | Code Meaning | Definition | |
|-------------|---|--|--------------------|
| RTRECORD | Radiotherapy Treatment Record | A device, process or method that records radiotherapy treatment records. | |
| RTSTRUCT | Radiotherapy Structure Set | A device, process or method that produces Radiotherapy Structure Sets. | |
| SEG | Segmentation | An image processing device, process or method that performs segmentation. | |
| SM | Slide Microscopy | An acquisition device, process or method that performs slide microscopy. | |
| SMR | Stereometric Relationship | A device, process or method that records relationships between stereometric image pairs. | |
| SR | Structured Report Document | A device, process or method that creates Structured Report documents. | |
| SRF | Subjective Refraction | An acquisition device, process or method that records subjective refraction. | |
| ST | <i>Single-photon emission computed tomography</i> | <i>An acquisition device, process or method that performs single-photon emission computed tomography (SPECT).</i> | Reti Rep "Nu |
| TG | Thermography | An acquisition device, process or method that performs thermography. | |
| U | Unknown Sex | Unknown Sex. | |
| UNAVAILABLE | Unavailable | Instances cannot be retrieved. | |
| US | Ultrasound | An acquisition device, process or method that performs ultrasound. | |
| VA | Visual Acuity | An acquisition device, process or method that measures visual acuity. | |
| VF | <i>Videofluorography</i> | <i>An acquisition device, process or method that measures videofluorography.</i> | Reti Rep "Ra |
| VIDD | Video Tape Digitizer Equipment | A device, process or method that digitizes video tape and imports it. | |
| WSD | Workstation | A networked computer equipped with a display and software for performing specific types of work, generally intended to be operated by a single user. | |
| XA | X-Ray Angiography | An acquisition device, process or method that performs X-Ray angiography. | |
| XC | External-camera Photography | An acquisition device, process or method that performs photography with an external camera. | |
| 109001 | Digital timecode (NOS) | A signal transmitted for the purpose of interchange of the current time, not specific to any source or methodology. | |
| 109002 | ECG-based gating signal, processed | A signal that is generated for each detection of a heart beat. | |
| 109003 | IRIG-B timecode | A signal transmitted by the Inter-Range Instrumentation Group for the purpose of synchronizing time clocks. | |
| 109004 | X-Ray Fluoroscopy On Signal | A signal that indicates that X-Ray source has been activated for fluoroscopy use. | |
| 109005 | X-Ray On Trigger | A signal that indicated that the X-Ray source has been activated for image recording. | |
| 109006 | Differential signal | An electrical signal derived from two electrodes. | |
| 109007 | His bundle electrogram | An electrophysiological recording from the HIS nerve bundle. | |
| 109008 | Monopole signal | An electrical signal from one electrode relative to an indifferent potential. | |
| 109009 | Pacing (electrical) stimulus, voltage | The voltage stimulus during cardiac pacing. | |
| 109010 | Radio frequency ablation, power | The power injected during RF ablation procedure. | |
| 109011 | Voltage measurement by basket catheter | Electrophysiological signals acquired using a multi-splined catheter each equipped with multiple electrodes. | |
| 109012 | Voltage measurement by mapping catheter | Electrophysiological signals acquired using a steerable catheter. | |
| 109013 | Voltage measurement | A voltage measurement not otherwise specified. | |
| 109014 | 35% of thermal CO | A signal point that is 35% of the peak thermal cardiac output signal. | |

| Code Value | Code Meaning | Definition |
|------------|---------------------------------------|---|
| 109015 | 70% of thermal CO | A signal point that is 70% of the peak thermal cardiac output signal. |
| 109016 | A wave peak pressure | The peak pressure of each heart beat in the atrium caused by the atrial contraction. |
| 109017 | A wave pressure, average | The average of several A wave pressure measurements. |
| 109018 | Beat detected (accepted) | An identified cardiac beat used in the determination of a measurement. |
| 109019 | Beat detected (rejected) | An identified cardiac beat not used in the determination of a measurement. |
| 109020 | <i>Diastolic pressure, average</i> | <i>The average of several diastolic pressure measurements</i> |
| 109021 | <i>Diastolic pressure nadir</i> | <i>The lowest pressure value excluding any undershoot artifact.</i> |
| 109022 | <i>End diastole</i> | <i>The moment at the end of the diastolic phase of the cardiac cycle.</i> |
| 109023 | End of expiration | The moment at the end of respiratory expiration. |
| 109024 | End of inspiration | The moment at the end of respiratory inspiration. |
| 109025 | Max dp/dt | The maximum positive rate of change of pressure. |
| 109026 | Max neg dp/dt | The maximum negative rate of change of pressure. |
| 109027 | <i>Mean blood pressure</i> | <i>The average blood pressure value, generally over 2 or more seconds</i> |
| 109028 | Peak of thermal cardiac output bolus | The peak change in blood temperature during a thermal cardiac output measurement. |
| 109029 | Start of expiration | The moment respiratory expiration begins. |
| 109030 | Start of inspiration | The moment of respiratory inspiration begins. |
| 109031 | Start of thermal cardiac output bolus | The first discernible blood temperature change following the injectate during a thermal cardiac output measurement. |
| 109032 | <i>Systolic pressure, average</i> | <i>The average of several systolic blood pressure measurements.</i> |
| 109033 | <i>Systolic peak pressure</i> | <i>The highest systolic blood pressure value excluding any overshoot artifact</i> |
| 109034 | V wave peak pressure | The peak pressure of each heart beat in the atrium caused by the filling of the atrium. |
| 109035 | V wave pressure, average | The average of several V wave pressure measurements. |
| 109036 | Valve close | The moment at which a heart valve closes. |
| 109037 | Valve open | The moment at which a heart valve opens. |
| 109038 | Ablation off | The moment when RF ablation current is turned off. |
| 109039 | Ablation on | The moment when RF ablation current is turned on. |
| 109040 | HIS bundle wave | The moment in the cardiac cycle when the HIS bundle nerves depolarize. |
| 109041 | P wave | The surface electrocardiogram of the atrial contraction. |
| 109042 | Q wave | The first negative deflection of the electrocardiogram cause by ventricular depolarization. |
| 109043 | R wave | The first positive deflection the electrocardiogram cause by ventricular depolarization. |
| 109044 | S wave | The first negative deflection after the R wave. |
| 109045 | Start of atrial contraction | The beginning of the atrial contraction. |

| Code Value | Code Meaning | Definition | |
|------------|--|---|---------------------------------------|
| 109046 | Start of atrial contraction (subsequent) | The beginning of the second atrial contraction of two consecutive beats. | |
| 109047 | Stimulation at rate 1 interval | The stimulation interval during cardiac stimulation first used in a pacing train. | |
| 109048 | Stimulation at rate 2 interval | The stimulation interval different from the first stimulation interval used in a pacing train. | |
| 109049 | Stimulation at rate 3 interval | A stimulation interval different from and subsequent to the second interval in a pacing train. | |
| 109050 | Stimulation at rate 4 interval | Describes a stimulation interval different from and subsequent to the third interval in a pacing train. | |
| 109051 | T wave | The electrocardiogram deflection caused by ventricular repolarization. | |
| 109052 | V wave | The peak pressure of each heart beat monitored in the atrium caused by the filling of the atrium. | |
| 109053 | V wave of next beat | The second V wave measurement of two consecutive beats. | |
| 109054 | Patient State | A description of the physiological condition of the patient. | |
| 109055 | Protocol Stage | The exercise level during a progressive cardiac stress test. | |
| 109056 | Stress Protocol | A series of physiological challenges designed to progressively increase the work of the heart. | |
| 109057 | <i>Catheterization Procedure Phase</i> | <i>A subpart of a cardiac catheterization procedure</i> | <i>Reti (G-7 "Cat Pha</i> |
| 109058 | Contrast Phase | The subpart of a cardiac catheterization procedure in which a radio-opaque contrast medium is injected into the patient. | |
| 109059 | Physiological challenges | Physical changes administered to a patient in order to elicit an physiological response. | |
| 109060 | Procedure Step Number | Enumeration of a subpart of a catheterization procedure. | |
| 109061 | EP Procedure Phase | A subpart of an electrophysiological procedure. | |
| 109063 | Pulse train definition | A means of defining a series of cardiac stimulation pulses. | |
| 109070 | <i>End of systole</i> | | <i>Reti (R-F syst</i> |
| 109071 | Indicator mean transit time | Time for a median particle to travel from point of injection to point of detection. | |
| 109072 | Tau | The time constant of isovolumic pressure fall. | |
| 109073 | V max myocardial | Maximum velocity of myocardial contractility. | |
| 109080 | Real time acquisition | Total time for the acquisition is shorter than cardiac cycle, no gating is applied; see Cardiac Synchronization Technique (0018,9037). | |
| 109081 | Prospective gating | Certain thresholds have been set for a gating window that defines the acceptance of measurement data during the acquisition; see Cardiac Synchronization Technique (0018,9037). | |
| 109082 | Retrospective gating | Certain thresholds have been set for a gating window that defines the acceptance of measurement data after the acquisition; see Cardiac Synchronization Technique (0018,9037). | |
| 109083 | Paced | There is a constant RR interval, which makes thresholding not required; see Cardiac Synchronization Technique (0018,9037). E.g., Pacemaker. | |
| 109091 | <i>Cardiac Stress State</i> | <i>Imaging after injection of tracer during increased cardiac workload or increased myocardial blood flow, achieved by either exercise or pharmacologic means.</i> | <i>Reti (F-0 stre</i> |
| 109092 | Reinjection State | Imaging after injection of additional tracer under resting conditions. | |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 109093 | Redistribution State | Imaging after allowing a moderate amount of time for tracer to move from its initial sites of uptake. Example: For Thallium imaging this would correspond to imaging 2-6 hours after injection. |
| 109094 | Delayed Redistribution State | Imaging after allowing an extended amount of time for tracer to move from its initial sites of uptake. Example: For Thallium imaging this would correspond to imaging more than 6 hours after injection. |
| 109095 | <i>Peak stress state</i> | <i>Peak Cardiac stress state</i> |
| 109096 | <i>Recovery state</i> | <i>Recovery from cardiac stress</i> |
| 109101 | Acquisition Equipment | Equipment that originally acquired the data stored within composite instances. E.g., a CT, MR or Ultrasound modality. |
| 109102 | Processing Equipment | Equipment that has processed composite instances to create new composite instances. E.g., a 3D Workstation. |
| 109103 | Modifying Equipment | Equipment that has modified existing composite instances (without creating new composite instances). E.g., a QA Station or Archive. |
| 109104 | De-identifying Equipment | Equipment that has modified an existing composite instance to remove patient identifying information. |
| 109105 | Frame Extracting Equipment | Equipment that has processed composite instances to create new composite instances by extracting selected frames from the original instance. |
| 109106 | Enhanced Multi-frame Conversion Equipment | Equipment that has processed composite instances to create new composite instances by converting classic single frame images to enhanced multi-frame image, or vice versa and updating other instances to maintain referential integrity. |
| 109110 | Voice | The sound of a human's speech, recorded during a procedure. |
| 109111 | Operator's narrative | The voice of a device operator, recorded during a procedure. |
| 109112 | Ambient room environment | The ambient sound recorded during a procedure, which may or may not include voice and other types of sound. |
| 109113 | Doppler audio | The Doppler waveform recorded as an audible signal. |
| 109114 | Phonocardiogram | The sound of the human heart beating. |
| 109115 | Physiological audio signal | Any sound made by the human body. |
| 109116 | Arterial Pulse Waveform | A digitized signal from the patient arterial system collected through pulse oximetry or other means. |
| 109117 | Respiration Waveform | A digitized signal from the patient respiratory system representing respiration. |

| Code Value | Code Meaning | Definition | |
|------------|--|--|--|
| 109120 | On admission to unit | The occasion on which a procedure was performed on admission to a specialist unit. E.g., intensive care. | |
| 109121 | On discharge | The occasion on which a procedure was performed on discharge from hospital as an in-patient. | |
| 109122 | On discharge from unit | The occasion on which a procedure was performed on discharge from a specialist unit. E.g., intensive care. | |
| 109123 | Pre-intervention | The occasion on which a procedure was performed immediately prior to non-surgical intervention. E.g, percutaneous angioplasty, biopsy. | |
| 109124 | Post-intervention | The occasion on which a procedure was performed immediately after to non-surgical intervention. E.g, percutaneous angioplasty, biopsy. | |
| 109125 | At last appointment | The occasion on which a procedure was performed at the most recent outpatient visit. | |
| 109132 | Joint position method | The active or passive joint positioning during acquisition. | |
| 109133 | Physical force | A physical force applied during acquisition. | |
| 109134 | Prior to voiding | Prior to voiding. | |
| 109135 | Post voiding | Post voiding. | |
| 109136 | Neutral musculoskeletal position | Neutral musculoskeletal position. | |
| 109200 | America Kennel Club | America Kennel Club. | |
| 109201 | America's Pet Registry Inc. | America's Pet Registry Inc. | |
| 109202 | American Canine Association | American Canine Association. | |
| 109203 | American Purebred Registry | American Purebred Registry. | |
| 109204 | American Rare Breed Association | American Rare Breed Association. | |
| 109205 | Animal Registry Unlimited | Animal Registry Unlimited. | |
| 109206 | Animal Research Foundation | Animal Research Foundation. | |
| 109207 | Canadian Border Collie Association | Canadian Border Collie Association. | |
| 109208 | Canadian Kennel Club | Canadian Kennel Club. | |
| 109209 | Canadian Livestock Records Association | Canadian Livestock Records Association. | |
| 109210 | Canine Federation of Canada | Canine Federation of Canada. | |
| 109211 | Continental Kennel Club | Continental Kennel Club. | |
| 109212 | Dog Registry of America | Dog Registry of America. | |
| 109213 | Federation of International Canines | Federation of International Canines. | |
| 109214 | International Progressive Dog Breeders' Alliance | International Progressive Dog Breeders' Alliance. | |
| 109215 | National Kennel Club | National Kennel Club. | |
| 109216 | North American Purebred Dog Registry | North American Purebred Dog Registry. | |
| 109217 | United All Breed Registry | United All Breed Registry. | |
| 109218 | United Kennel Club | United Kennel Club. | |
| 109219 | Universal Kennel Club International | Universal Kennel Club International. | |
| 109220 | Working Canine Association of Canada | Working Canine Association of Canada. | |
| 109221 | World Kennel Club | World Kennel Club. | |
| 109222 | World Wide Kennel Club | World Wide Kennel Club. | |

| Code Value | Code Meaning | Definition |
|------------|----------------------------------|--|
| 109701 | Overall image quality evaluation | Evaluation of overall image quality as described in section 7.3.2 of [IEC 62563-1]. |
| 109702 | Grayscale resolution evaluation | Visual verification of sufficient grayscale resolution based on 8 and 10-bit markers as described in section 7.3.3 of [IEC 62563-1]. |
| 109703 | Luminance response evaluation | Visual evaluation of luminance response using the TG18-CT test pattern as described in section 7.3.4 of [IEC 62563-1]. |
| 109704 | Luminance uniformity evaluation | Visual detection of luminance non-uniformities as described in section 7.3.5 of [IEC 62563-1]. |
| 109705 | Chromaticity evaluation | Visual verification of color uniformity as described in section 7.3.6 of [IEC 62563-1]. |
| 109706 | Pixel faults evaluation | Visual detection of defective pixels on dark (TG18-UN80) and bright (TG18-UN10) images as described in section 7.3.7 of [IEC 62563-1]. |
| 109707 | Veiling glare evaluation | Visual evaluation of veiling glare by looking at low contrast objects on 2 test patterns as described in section 7.3.8 of [IEC 62563-1]. |
| 109708 | Geometrical image evaluation | Visual evaluation of geometry, phase/clock correction and clipping as described in section 7.3.9 of [IEC 62563-1]. |
| 109709 | Angular viewing evaluation | Visual evaluation of viewing angle as described in section 7.3.10 of [IEC 62563-1]. |
| 109710 | Clinical evaluation | Visual evaluation of the appearance of clinical images as described in section 7.3.11 of [IEC 62563-1]. |
| 109801 | TG18-QC Pattern | AAPM TG18-QC Pattern used for evaluation of resolution, luminance, distortion, artifacts. See [AAPM OR 03]. |
| 109802 | TG18-BR Pattern | AAPM TG18-BR Pattern used for the evaluation of the display of low-contrast, fine-detail image structures See [AAPM OR 03]. |
| 109803 | TG18-PQC Pattern | AAPM TG18-PQC Pattern used for evaluation of resolution, luminance, contrast transfer for prints. See [AAPM OR 03]. |
| 109804 | TG18-CT Pattern | AAPM TG18-CT Pattern used for evaluation of luminance response. See [AAPM OR 03]. |
| 109805 | TG18-LN8-01 Pattern | The 1 st image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109806 | TG18-LN8-02 Pattern | The 2 nd image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109807 | TG18-LN8-03 Pattern | The 3 rd image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109808 | TG18-LN8-04 Pattern | The 4 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109809 | TG18-LN8-05 Pattern | The 5 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109810 | TG18-LN8-06 Pattern | The 6 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109811 | TG18-LN8-07 Pattern | The 7 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. |

| Code Value | Code Meaning | Definition | |
|------------|----------------------|---|--|
| 109812 | TG18-LN8-08 Pattern | The 8 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109813 | TG18-LN8-09 Pattern | The 9 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109814 | TG18-LN8-10 Pattern | The 10 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration series. See [AAPM OR 03]. | |
| 109815 | TG18-LN8-11 Pattern | The 11 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109816 | TG18-LN8-12 Pattern | The 12 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109817 | TG18-LN8-13 Pattern | The 13 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109818 | TG18-LN8-14 Pattern | The 14 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109819 | TG18-LN8-15 Pattern | The 15 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109820 | TG18-LN8-16 Pattern | The 16 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109821 | TG18-LN8-17 Pattern | The 17 th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109822 | TG18-LN8-18 Pattern | The 18 th image in the AAPM TG18-LN8- set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109823 | TG18-LN12-01 Pattern | The 1 st image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109824 | TG18-LN12-02 Pattern | The 2 nd image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109825 | TG18-LN12-03 Pattern | The 3 rd image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109826 | TG18-LN12-04 Pattern | The 4 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109827 | TG18-LN12-05 Pattern | The 5 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109828 | TG18-LN12-06 Pattern | The 6 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |
| 109829 | TG18-LN12-07 Pattern | The 7 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. | |

| Code Value | Code Meaning | Definition |
|------------|----------------------|---|
| 109830 | TG18-LN12-08 Pattern | The 8 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109831 | TG18-LN12-09 Pattern | The 9 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109832 | TG18-LN12-10 Pattern | The 10 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109833 | TG18-LN12-11 Pattern | The 11 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109834 | TG18-LN12-12 Pattern | The 12 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109835 | TG18-LN12-13 Pattern | The 13 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109836 | TG18-LN12-14 Pattern | The 14 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109837 | TG18-LN12-15 Pattern | The 15 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109838 | TG18-LN12-16 Pattern | The 16 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109839 | TG18-LN12-17 Pattern | The 17 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109840 | TG18-LN12-18 Pattern | The 18 th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03]. |
| 109841 | TG18-UN10 Pattern | The AAPM TG18-UN10 Pattern used for evaluation of luminance and color uniformity, and angular response. See [AAPM OR 03]. |
| 109842 | TG18-UN80 Pattern | The AAPM TG18-UN80 Pattern used for evaluation of luminance and color uniformity, and angular response. See [AAPM OR 03]. |
| 109843 | TG18-UNL10 Pattern | The AAPM TG18-UNL10 Pattern is the AAPM TG-18 UN10 Pattern with added defining lines. See [AAPM OR 03]. |
| 109844 | TG18-UNL80 Pattern | The AAPM TG18-UNL80 Pattern is the AAPM TG-18 UN80 Pattern with added defining lines. See [AAPM OR 03]. |
| 109845 | TG18-AD Pattern | The AAPM TG18-AD Pattern used for visual evaluation of the reflection of ambient light from the display. See [AAPM OR 03]. |

| Code Value | Code Meaning | Definition |
|------------|--------------------|---|
| 109846 | TG18-MP Pattern | The AAPM TG18-MP Pattern used for evaluation of Luminance response (bit-depth resolution). See [AAPM OR 03]. |
| 109847 | TG18-RH10 Pattern | The AAPM TG18-RH10 Pattern used for LSF-line spectra function-(1k and 2k) evaluation by 5 horizontal lines at 10% luminance level. See [AAPM OR 03]. |
| 109848 | TG18-RH50 Pattern | The AAPM TG18-RH50 Pattern used for LSF-line spectra function-(1k and 2k) evaluation by 5 horizontal lines at 50% luminance level. See [AAPM OR 03]. |
| 109849 | TG18-RH89 Pattern | The AAPM TG18-RH89 Pattern used for LSF-line spectra function-(1k and 2k) evaluation by 5 horizontal lines at 89% luminance level. See [AAPM OR 03]. |
| 109850 | TG18-RV10 Pattern | The AAPM TG18-RV10 Pattern used for LSF-line spectra function-(1k and 2k) evaluation by 5 vertical lines at 10% luminance level. See [AAPM OR 03]. |
| 109851 | TG18-RV50 Pattern | The AAPM TG18-RV50 Pattern used for LSF-line spectra function-(1k and 2k) evaluation by 5 vertical lines at 50% luminance level. See [AAPM OR 03]. |
| 109852 | TG18-RV89 Pattern | The AAPM TG18-RV89 Pattern used for LSF-line spectra function-(1k and 2k) evaluation by 5 vertical lines at 89% luminance level. See [AAPM OR 03]. |
| 109853 | TG18-PX Pattern | The AAPM TG18-PX Pattern used for the assessment of display resolution. See [AAPM OR 03]. |
| 109854 | TG18-CX Pattern | The AAPM TG18-CX Pattern used to assess display resolution and resolution uniformity. See [AAPM OR 03]. |
| 109855 | TG18-LPH10 Pattern | The AAPM TG18-LPH10 Pattern used to assess display resolution. This pattern has horizontal bars consisting of alternating single-pixel-wide lines across the faceplate of display. The lines have a 12% positive contrast against 10% background level of the maximum pixel value. See [AAPM OR 03]. |
| 109856 | TG18-LPH50 Pattern | The AAPM TG18-LPH50 Pattern used to assess display resolution. This pattern has horizontal bars consisting of alternating single-pixel-wide lines across the faceplate of display. The lines have a 50% positive contrast against 10% background level of the maximum pixel value. See [AAPM OR 03]. |
| 109857 | TG18-LPH89 Pattern | The AAPM TG18-LPH89 Pattern used to assess display resolution. This pattern has horizontal bars consisting of alternating single-pixel-wide lines across the faceplate of display. The lines have a 12% positive contrast against 89% background level of the maximum pixel value. See [AAPM OR 03]. |

| Code Value | Code Meaning | Definition |
|------------|--------------------|--|
| 109858 | TG18-LPV10 Pattern | The AAPM TG18-LPV10 Pattern used to assess display resolution. This pattern has vertical bars consisting of alternating single-pixel-wide lines across the faceplate of display. The lines have a 12% positive contrast against 10% background level of the maximum pixel value. See [AAPM OR 03]. |
| 109859 | TG18-LPV50 Pattern | The AAPM TG18-LPV50 Pattern used to assess display resolution. This pattern has vertical bars consisting of alternating single-pixel-wide lines across the faceplate of display. The lines have a 12% positive contrast against 50% background level of the maximum pixel value. See [AAPM OR 03]. |
| 109860 | TG18-LPV89 Pattern | The AAPM TG18-LPV89 Pattern used to assess display resolution. This pattern has vertical bars consisting of alternating single-pixel-wide lines across the faceplate of display. The lines have a 12% positive contrast against 89% background level of the maximum pixel value. See [AAPM OR 03]. |
| 109861 | TG18-AFC Pattern | The AAPM TG18-AFC Pattern used to assess display noise. See [AAPM OR 03] |
| 109862 | TG18-NS10 Pattern | The AAPM TG18-NS10 Pattern is AAPM TG18-RV10/RH10 with only difference being the absence of the single line at the center of the measurement area. See [AAPM OR 03]. |
| 109863 | TG18-NS50 Pattern | The AAPM TG18-NS50 Pattern is AAPM TG18-RV50/RH50 with only difference being the absence of the single line at the center of the measurement area. See [AAPM OR 03]. |
| 109864 | TG18-NS89 Pattern | The AAPM TG18-NS89 Pattern is AAPM TG18-RV89/RH89 with only difference being the absence of the single line at the center of the measurement area. See [AAPM OR 03]. |
| 109865 | TG18-GV Pattern | The TG18-GV Pattern used to assess display veiling. See [AAPM OR 03]. |
| 109866 | TG18-GVN Pattern | The TG18-GVN Pattern used to assess display veiling. This pattern is identical to AAPM TG18-GV Pattern except that the large-diameter white circle is replaced with a black circle, creating a completely black pattern except for the presence of low-contrast targets. See [AAPM OR 03]. |
| 109867 | TG18-GQ Pattern | The TG18-GQ Pattern used for quantitative assessment of veiling glare. This pattern is identical to TG18-GV except that is lacks the central low-contrast objects. See [AAPM OR 03]. |
| 109868 | TG18-GQN Pattern | TG18-GQN Pattern used for the quantitative assessment of veiling glare. This pattern is identical to AAPM TG18-GQ Pattern except that the large-diameter white circle is replaced with a black circle, creating a completely black pattern except for the presence of low-contrast targets. See [AAPM OR 03]. |
| 109869 | TG18-GQB Pattern | The TG18-GQB Pattern used for the quantitative assessment of veiling glare. This pattern is identical to AAPM TG18-GQ Pattern except eliminating the central black circle. See [AAPM OR 03]. |

| Code Value | Code Meaning | Definition | |
|------------|-------------------|---|--|
| 109870 | TG18-GA03 Pattern | The TG18-GA03 Pattern used for quantitative assessment of veiling glare. This pattern is identical to TG18-GQ except that the radius of the central black circle is varied as $r = 3$. See [AAPM OR 03]. | |
| 109871 | TG18-GA05 Pattern | The TG18-GA05 Pattern This pattern is identical to TG18-GQ except that the radius of the central black circle is varied as $r = 5$. See [AAPM OR 03]. | |
| 109872 | TG18-GA08 Pattern | The TG18-GA08 Pattern used for quantitative assessment of veiling glare. This pattern is identical to TG18-GQ except that the radius of the central black circle is varied as $r = 8$. See [AAPM OR 03]. | |
| 109873 | TG18-GA10 Pattern | The TG18-GA10 Pattern used for quantitative assessment of veiling glare. This pattern is identical to TG18-GQ except that the radius of the central black circle is varied as $r = 10$. See [AAPM OR 03]. | |
| 109874 | TG18-GA15 Pattern | The TG18-GA15 Pattern used for quantitative assessment of veiling glare. This pattern is identical to TG18-GQ except that the radius of the central black circle is varied as $r = 15$. | |
| 109875 | TG18-GA20 Pattern | The TG18-GA20 Pattern used for quantitative assessment of veiling glare. This pattern is identical to TG18-GQ except that the radius of the central black circle is varied as $r = 20$. See [AAPM OR 03]. | |
| 109876 | TG18-GA25 Pattern | The TG18-GA25 Pattern used for quantitative assessment of veiling glare. This pattern is identical to TG18-GQ except that the radius of the central black circle is varied as $r = 25$. See [AAPM OR 03]. | |
| 109877 | TG18-GA30 Pattern | The TG18-GA30 Pattern used for quantitative assessment of veiling glare. This pattern is identical to TG18-GQ except that the radius of the central black circle is varied as $r = 30$. See [AAPM OR 03]. | |
| 109878 | TG18-CH Image | The AAPM TG18-CH Image is a reference anatomical PA chest image. See [AAPM OR 03]. | |
| 109879 | TG18-KN Image | The AAPM TG18-KN Image is a reference anatomical knee image. See [AAPM OR 03]. | |
| 109880 | TG18-MM1 Image | The AAPM TG18-MM1 Image is a reference anatomical mammogram image. See [AAPM OR 03]. | |
| 109881 | TG18-MM2 Image | The AAPM TG18-MM2 Image is a reference anatomical mammogram image. See [AAPM OR 03]. | |
| 109901 | OIQ Pattern | The IEC OIQ Pattern is used as an alternative to the TG18-QC Pattern. See [IEC 62563-1]. | |
| 109902 | ANG Pattern | The IEC ANG Pattern used for angular viewing evaluation. See [IEC 62563-1]. | |

| Code Value | Code Meaning | Definition |
|------------|--------------|---|
| 109903 | GD Pattern | The IEC GD Pattern used for geometrical image evaluation. See [IEC 62563-1]. |
| 109904 | BN01 Pattern | The IEC BN01 Pattern is used as an alternative to the TG18-LN-01 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109905 | BN02 Pattern | The IEC BN02 Pattern is used as an alternative to the TG18-LN-02 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109906 | BN03 Pattern | The IEC BN03 Pattern is used as an alternative to the TG18-LN-03 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109907 | BN04 Pattern | The IEC BN04 Pattern is used as an alternative to the TG18-LN-04 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109908 | BN05 Pattern | The IEC BN05 Pattern is used as an alternative to the TG18-LN-05 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109909 | BN06 Pattern | The IEC BN06 Pattern is used as an alternative to the TG18-LN-06 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109910 | BN07 Pattern | The IEC BN07 Pattern is used as an alternative to the TG18-LN-07 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109911 | BN08 Pattern | The IEC BN08 Pattern is used as an alternative to the TG18-LN-08 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109912 | BN09 Pattern | The IEC BN09 Pattern is used as an alternative to the TG18-LN-09 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109913 | BN10 Pattern | The IEC BN10 Pattern is used as an alternative to the TG18-LN-10 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109914 | BN11 Pattern | The IEC BN11 Pattern is used as an alternative to the TG18-LN-11 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109915 | BN12 Pattern | The IEC BN12 Pattern is used as an alternative to the TG18-LN-12 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109916 | BN13 Pattern | The IEC BN13 Pattern is used as an alternative to the TG18-LN-13 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |

| Code Value | Code Meaning | Definition |
|------------|-----------------------------|---|
| 109917 | BN14 Pattern | The IEC BN14 Pattern is used as an alternative to the TG18-LN-14 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109918 | BN15 Pattern | The IEC BN15 Pattern is used as an alternative to the TG18-LN-15 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109919 | BN16 Pattern | The IEC BN16 Pattern is used as an alternative to the TG18-LN-16 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109920 | BN17 Pattern | The IEC BN17 Pattern is used as an alternative to the TG18-LN-17 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109921 | BN18 Pattern | The IEC BN18 Pattern is used as an alternative to the TG18-LN-18 Pattern, to avoid the use of a cone or baffle with LCDs. See [IEC 62563-1]. |
| 109931 | DIN Grayscale Pattern | Test image "Bild 2" for the gray-scale reproduction of imaging devices. See [DIN 6868-57]. |
| 109932 | DIN Geometry Pattern | Test image "Bild 3" for the geometrical imaging properties of imaging devices. See [DIN 6868-57]. |
| 109933 | DIN Resolution Pattern | Test image "Bild 5" for displaying the spatial and contrast resolution as well as the line structure of imaging devices. See [DIN 6868-57]. |
| 109941 | White Pattern | An alternative to AAPM TG18-UN80, specified at 100% of maximum pixel value. |
| 109943 | SMPTE Pattern | A standard display test pattern. See [SMPTE RP133]. A pattern is available at http://www.dclunie.com/images/smppte.512.512.8.gif . |
| 109991 | CRT Display | A Display Device that displays images on a Cathode Ray Tube. |
| 109992 | Liquid Crystal Display | A Display Device that displays images on a Liquid Crystal Display. |
| 109993 | Plasma Display | A Display Device that displays images on a Plasma Display. |
| 109994 | OLED | A Display Device that displays images on an Organic Light Emitting Diode based display. |
| 109995 | DLP Rear Projection System | A Display Device that projects images on a surface from behind using a Digital Light Processing Projector. |
| 109996 | DLP Front Projection System | A Display Device that projects images on a surface from in front using a Digital Light Processing Projector. |
| 109997 | CRT Rear Projection System | A Display Device that projects images on a surface from behind using a Cathode Ray Tube. |
| 109998 | CRT Front Projection System | A Display Device that projects images on a surface from in front using a Cathode Ray Tube. |
| 109999 | Other Projection System | A Display Device that projects images on a surface from an unspecified direction using an unspecified means. |
| 110001 | Image Processing | Image processing work item. |

| Code Value | Code Meaning | Definition |
|------------|------------------------------------|--|
| 110002 | Quality Control | Quality control work item. |
| 110003 | Computer Aided Diagnosis | Computer aided diagnosis work item. |
| 110004 | Computer Aided Detection | Computer aided detection work item. |
| 110005 | Interpretation | The work item task is to prepare a report that contains the interpretation of an imaging study. |
| 110006 | Transcription | Transcription work item. |
| 110007 | Report Verification | Report verification work item. |
| 110008 | Print | Print work item. |
| 110009 | No subsequent Workitems | There will be no more work items scheduled. |
| 110010 | Film | Film type of output. |
| 110011 | Dictation | Dictation type of output. |
| 110012 | Transcription | Transcription type of output. |
| 110013 | Media Import | The procedure to read DICOM instances from DICOM interchange media, coerce identifying attributes into the local namespace if necessary, and make the instances available. |
| 110020 | Sheet Film Digitized | Digitization of Sheet Film. |
| 110021 | Cine Film Digitized | Digitization of Cine Film. |
| 110022 | Video Tape Digitized | Digitization of Video Tape. |
| 110023 | Paper Digitized | Digitization of pages of a paper document (Units may be specified as Pages, Documents). |
| 110024 | CD Imported | Importation of CD. |
| 110025 | DVD Imported | Importation of DVD. |
| 110026 | MOD Imported | Importation of MOD. |
| 110027 | Studies Imported | Importation of DICOM Studies. |
| 110028 | Instances Imported | Importation of DICOM Composite Instances. |
| 110030 | USB Disk Emulation | A device that connects using the USB hard drive interface. These may be USB-Sticks, portable hard drives, and other technologies. |
| 110031 | Email | Email and email attachments used as a media for data transport. |
| 110032 | CD | CD-R, CD-ROM, and CD-RW media used for data transport. |
| 110033 | DVD | DVD, DVD-RAM, and other DVD formatted media used for data transport. |
| 110034 | Compact Flash | Media that comply with the Compact Flash standard. |
| 110035 | Multi-media Card | Media that comply with the Multi-media Card standard. |
| 110036 | Secure Digital Card | Media that comply with the Secure Digital Card standard. |
| 110037 | URI | URI Identifier for network or other resource, see RFC3968. |
| 110038 | Paper Document | Any paper or similar document. |
| 110100 | Application Activity | Audit event: Application Activity has taken place. |
| 110101 | Audit Log Used | Audit event: Audit Log has been used. |
| 110102 | Begin Transferring DICOM Instances | Audit event: Storage of DICOM Instances has begun. |
| 110103 | DICOM Instances Accessed | Audit event: DICOM Instances have been created, read, updated, or deleted -audit event. |
| 110104 | DICOM Instances Transferred | Audit event: Storage of DICOM Instances has been completed. |
| 110105 | DICOM Study Deleted | Audit event: Entire Study has been deleted. |
| 110106 | Export | Audit event: Data has been exported out of the system. |
| 110107 | Import | Audit event: Data has been imported into the system. |
| 110108 | Network Entry | Audit event: System has joined or left network. |

| Code Value | Code Meaning | Definition | |
|------------|------------------------------------|--|--|
| 110109 | Order Record | Audit event: Order has been created, read, updated or deleted. | |
| 110110 | Patient Record | Audit event: Patient Record has been created, read, updated, or deleted. | |
| 110111 | Procedure Record | Audit event: Procedure Record has been created, read, updated, or deleted. | |
| 110112 | Query | Audit event: Query has been made. | |
| 110113 | Security Alert | Audit event: Security Alert has been raised. | |
| 110114 | User Authentication | Audit event: User Authentication has been attempted. | |
| 110119 | Station AE Title | Application Entity Title of a device. | |
| 110120 | Application Start | Audit event: Application Entity has started. | |
| 110121 | Application Stop | Audit event: Application Entity has stopped. | |
| 110122 | Login | Audit event: User login has been attempted. | |
| 110123 | Logout | Audit event: User logout has been attempted. | |
| 110124 | Attach | Audit event: Node has been attached. | |
| 110125 | Detach | Audit event: Node has been detached. | |
| 110126 | Node Authentication | Audit event: Node Authentication has been attempted. | |
| 110127 | Emergency Override Started | Audit event: Emergency Override has started. | |
| 110128 | Network Configuration | Audit event: Network configuration has been changed. | |
| 110129 | Security Configuration | Audit event: Security configuration has been changed. | |
| 110130 | Hardware Configuration | Audit event: Hardware configuration has been changed. | |
| 110131 | Software Configuration | Audit event: Software configuration has been changed. | |
| 110132 | Use of Restricted Function | Audit event: A use of a restricted function has been attempted. | |
| 110133 | Audit Recording Stopped | Audit event: Audit recording has been stopped. | |
| 110134 | Audit Recording Started | Audit event: Audit recording has been started. | |
| 110135 | Object Security Attributes Changed | Audit event: Security attributes of an object have been changed. | |
| 110136 | Security Roles Changed | Audit event: Security roles have been changed. | |
| 110137 | User security Attributes Changed | Audit event: Security attributes of a user have been changed. | |
| 110138 | Emergency Override Stopped | Audit event: Emergency Override has Stopped. | |
| 110139 | Remote Service Operation Started | Audit event: Remote Service Operation has Begun. | |
| 110140 | Remote Service Operation Stopped | Audit event: Remote Service Operation has Stopped. | |
| 110141 | Local Service Operation Started | Audit event: Local Service Operation has Begun. | |
| 110142 | Local Service Operation Stopped | Audit event: Local Service Operation Stopped. | |
| 110150 | Application | Audit participant role ID of software application. | |
| 110151 | Application Launcher | Audit participant role ID of software application launcher, i.e., the entity that started or stopped an application. | |
| 110152 | Destination Role ID | Audit participant role ID of the receiver of data. | |
| 110153 | Source Role ID | Audit participant role ID of the sender of data. | |
| 110154 | Destination Media | Audit participant role ID of media receiving data during an export. | |
| 110155 | Source Media | Audit participant role ID of media providing data during an import. | |
| 110180 | Study Instance UID | ParticipantObjectID type: Study Instance UID. | |
| 110181 | SOP Class UID | ParticipantObjectID type: SOP Class UID. | |
| 110182 | Node ID | ID of a node that is a participant object of an audit message. | |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 110190 | Issuer of Identifier | System, organization, agency, or department that has assigned an instance identifier (such as placer or filler number, patient or provider identifier, etc.). |
| 110500 | Doctor canceled procedure | Procedure order canceled by requesting physician or other authorized physician. |
| 110501 | Equipment failure | Equipment failure prevented completion of procedure. |
| 110502 | Incorrect procedure ordered | Procedure discontinued due to incorrect procedure being ordered. |
| 110503 | Patient allergic to media/contrast | Procedure discontinued due to patient allergy to media/contrast (reported or reaction). |
| 110504 | Patient died | Procedure discontinued due to death of Patient. |
| 110505 | Patient refused to continue procedure | Procedure discontinued due to patient refusal to continue procedure. |
| 110506 | Patient taken for treatment or surgery | Procedure discontinued due to patient being taken for treatment or surgery. |
| 110507 | Patient did not arrive | Patient did not arrive for procedure. |
| 110508 | Patient pregnant | Procedure discontinued due to patient pregnancy (reported or determined). |
| 110509 | Change of procedure for correct charging | Procedure discontinued to restart with new procedure code for correct charging. |
| 110510 | Duplicate order | Procedure discontinued due to duplicate orders received for same procedure. |
| 110511 | Nursing unit cancel | Procedure order canceled by nursing unit. |
| 110512 | Incorrect side ordered | Procedure discontinued due to incorrect side (laterality) being ordered. |
| 110513 | Discontinued for unspecified reason | Procedure discontinued for unspecified reason. |
| 110514 | Incorrect worklist entry selected | Procedure discontinued due to incorrect patient or procedure step selected from modality worklist. |
| 110515 | Patient condition prevented continuing | Patient condition prevented continuation of procedure. |
| 110516 | Equipment change | Procedure step is discontinued to change to other equipment or modality. |
| 110518 | Patient Movement | A movement of the patient affecting test quality. |
| 110519 | Operator Error | An error of the operator affecting test quality. |
| 110521 | Objects incorrectly formatted | One or more of the objects is malformed. |
| 110522 | Object Types not supported | Receiving System is unable to accept the object type. |
| 110523 | Object Set incomplete | One or more objects associated with the object set is missing. |
| 110524 | Media Failure | The contents of the Media could not be accessed properly. |
| 110526 | Resource pre-empted | Procedure discontinued due to necessary equipment, staff or other resource becoming (temporarily) unavailable to the procedure. |
| 110527 | Resource inadequate | Procedure discontinued due to necessary equipment, staff or other resource being inadequate to complete the procedure. |
| 110528 | Discontinued Procedure Step rescheduled | A new Procedure Step has been scheduled to replace the Discontinued Procedure Step. |
| 110529 | Discontinued Procedure Step rescheduling recommended | It is recommended that a new Procedure Step be scheduled to replace the Discontinued Procedure Step. |
| 110530 | Workitem assignment rejected by assigned resource | The resource to which a workitem has been assigned has rejected the assignment. |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 110700 | Ventral Diencephalon | Ventral structures of the diencephalon that cannot readily be distinguished on MR imaging, including the hypothalamus, mammillary body, subthalamic nuclei, substantia nigra, red nucleus, lateral geniculate nucleus, medial geniculate nucleus, zona incerta, cerebral peduncle, lenticular fasciculus, medial lemniscus, and optic tract. See http://neuromorphometrics.org:8080/Seg/html/segmentation/ventral%20diencephalon.html . |
| 110701 | White Matter T1 Hypointensity | Area(s) of reduced intensity on T1 weighted images relative to the surrounding white matter. These may be indicative of age-related or neurodegenerative white matter lesions, and may be co-located with areas of white matter T2 hyperintensity, but the concept is specifically confined to the MR appearance on T1 weighted images. |
| 110702 | White Matter T2 Hyperintensity | Area(s) of increased intensity on T2 weighted images relative to the surrounding white matter. These may be indicative of age-related or neurodegenerative white matter lesions, and may be co-located with areas of white matter T1 hypointensity, but the concept is specifically confined to the MR appearance on T2 weighted images. |
| 110703 | superior longitudinal fasciculus I | The dorsal component of the SLF originating from the medial and dorsal parietal cortex and ending in the dorsal and medial part of the frontal lobe. See Makris N, et al. "Segmentation of Subcomponents within the Superior Longitudinal Fascicle in Humans: A Quantitative, In Vivo, DT-MRI Study." Cerebral Cortex 15, no. 6 (June 1, 2005): 854–69. doi:10.1093/cercor/bhh186:10.1093/cercor/bhh186. |
| 110704 | superior longitudinal fasciculus II | The major component of the SLF, derived from the caudal–inferior parietal region corresponding to the angular gyrus in the human and terminating within the dorsolateral frontal region. See Makris N, et al. "Segmentation of Subcomponents within the Superior Longitudinal Fascicle in Humans: A Quantitative, In Vivo, DT-MRI Study." Cerebral Cortex 15, no. 6 (June 1, 2005): 854–69. doi:10.1093/cercor/bhh186:10.1093/cercor/bhh186. |
| 110705 | superior longitudinal fasciculus III | The ventral component of the SLF, originating from the supramarginal gyrus and terminating predominantly in the ventral premotor and prefrontal areas. See Makris N, et al. "Segmentation of Subcomponents within the Superior Longitudinal Fascicle in Humans: A Quantitative, In Vivo, DT-MRI Study." Cerebral Cortex 15, no. 6 (June 1, 2005): 854–69. doi:10.1093/cercor/bhh186:10.1093/cercor/bhh186. |
| 110706 | Perilesional White Matter | White matter that surrounds a lesion of interest. E.g., to identify the otherwise unclassified white matter that surrounds a tumor to be surgically resected. |
| 110800 | Spin Tagging Perfusion MR Signal Intensity | Signal intensity of a Spin tagging Perfusion MR image. Spin tagging is a technique for the measurement of blood perfusion, based on magnetically labeled arterial blood water as an endogenous tracer. |
| 110801 | Contrast Agent Angio MR Signal Intensity | Signal intensity of a Contrast Agent Angio MR image. |
| 110802 | Time Of Flight Angio MR Signal Intensity | Signal intensity of a Time-of-flight (TOF) MR image. Time-of-flight (TOF) is based on the phenomenon of flow-related enhancement of spins entering into an imaging slice. As a result of being unsaturated, these spins give more signal than surrounding stationary spins. |
| 110803 | Proton Density Weighted MR Signal Intensity | Signal intensity of a Proton Density Weighted MR image. All MR images have intensity proportional to proton density. Images with very little T1 or T2 weighting are called 'PD-weighted'. |
| 110804 | T1 Weighted MR Signal Intensity | Signal intensity of T1 Weighted MR image. A T1 Weighted MR image is created typically by using short TE and TR times. |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 110805 | T2 Weighted MR Signal Intensity | Signal intensity of a T2 Weighted MR image. T2 Weighted image contrast state is approached by imaging with a TR long compared to tissue T1 (to reduce T1 contribution to image contrast) and a TE between the longest and shortest tissue T2s of interest. |
| 110806 | T2* Weighted MR Signal Intensity | Signal intensity of a T2* Weighted MR image. The T2* phenomenon results from molecular interactions (spin spin relaxation) and local magnetic field non-uniformities, which cause the protons to precess at slightly different frequencies. |
| 110807 | Field Map MR Signal Intensity | Signal intensity of a Field Map MR image. A Field Map MR image provides a direct measure of the B_0 inhomogeneity at each point in the image. |
| 110808 | Fractional Anisotropy | Coefficient reflecting the fractional anisotropy of the tissues, derived from a diffusion weighted MR image. Fractional anisotropy is proportional to the square root of the variance of the Eigen values divided by the square root of the sum of the squares of the Eigen values. |
| 110809 | Relative Anisotropy | Coefficient reflecting the relative anisotropy of the tissues, derived from a diffusion weighted MR image. |
| 110810 | Volumetric Diffusion Dxx Component | Dxx Component of the diffusion tensor, quantifying the molecular mobility along the X axis. |
| 110811 | Volumetric Diffusion Dxy Component | Dxy Component of the diffusion tensor, quantifying the correlation of molecular displacements in the X and Y directions. |
| 110812 | Volumetric Diffusion Dxz Component | Dxz Component of the diffusion tensor, quantifying the correlation of molecular displacements in the X and Z directions. |
| 110813 | Volumetric Diffusion Dyy Component | Dyy Component of the diffusion tensor, quantifying the molecular mobility along the Y axis. |
| 110814 | Volumetric Diffusion Dyz Component | Dyz Component of the diffusion tensor, quantifying the correlation of molecular displacements in the Y and Z directions. |
| 110815 | Volumetric Diffusion Dzz Component | Dzz Component of the diffusion tensor, quantifying the molecular mobility along the Z axis. |
| 110816 | T1 Weighted Dynamic Contrast Enhanced MR Signal Intensity | Signal intensity of a T1 Weighted Dynamic Contrast Enhanced MR image. A T1 Weighted Dynamic Contrast Enhanced MR image reflects the dynamics of diffusion of the exogenous contrast media from the blood pool into the extra vascular extracellular space (EES) of the brain at a rate determined by the blood flow to the tissue, the permeability of the Brain Blood Barrier (BBB), and the surface area of the perfusing vessels. |
| 110817 | T2 Weighted Dynamic Contrast Enhanced MR Signal Intensity | Signal intensity of a T2 Weighted Dynamic Contrast Enhanced MR image. A T2 Weighted Dynamic Contrast Enhanced MR image reflects the T2 of tissue decrease as the Gd contrast agent bolus passes through the brain. |
| 110818 | T2* Weighted Dynamic Contrast Enhanced MR Signal Intensity | Signal intensity of a T2* Weighted Dynamic Contrast Enhanced MR image. A T2* Weighted Dynamic Contrast Enhanced MR image reflects the T2* of tissue decrease as the Gd contrast agent bolus passes through the brain. |

| Code Value | Code Meaning | Definition |
|------------|---------------------------------------|---|
| 110819 | Blood Oxygenation Level | Signal intensity of a Blood Oxygenation Level image. BOLD imaging is sensitive to blood oxygenation (but also to cerebral blood flow and volume). This modality is essentially used for detecting brain activation (functional MR). |
| 110820 | Nuclear Medicine Projection Activity | Accumulated decay event counts in a nuclear medicine projection image. |
| 110821 | Nuclear Medicine Tomographic Activity | Accumulated decay event counts in a Nuclear Medicine Tomographic image (including PET). |
| 110822 | Spatial Displacement X Component | Spatial Displacement along axis X of a non linear deformable spatial registration image. The X axis is defined in reference to the patient's orientation, and is increasing to the left hand side of the patient. |
| 110823 | Spatial Displacement Y Component | Spatial Displacement along axis Y of a non linear deformable spatial registration image. The Y axis is defined in reference to the patient's orientation, and is increasing to the posterior side of the patient. |
| 110824 | Spatial Displacement Z Component | Spatial Displacement along axis Z of a Non linear deformable spatial registration image. The Z axis is defined in reference to the patient's orientation, and is increasing toward the head of the patient. |
| 110825 | Hemodynamic Resistance | Measured resistance to the flow of blood. E.g., through the vasculature or through a heart value. |
| 110826 | Indexed Hemodynamic Resistance | Measured resistance to the flow of blood. E.g., through the vasculature or through a heart value, normalized to a particular indexed scale. |
| 110827 | Tissue Velocity | Velocity of tissue based on Doppler measurements. |
| 110828 | Flow Velocity | Velocity of blood flow based on Doppler measurements. |
| 110829 | Flow Variance | Statistical variance of blood velocity relative to mean. |
| 110830 | Elasticity | Scalar value related to the elastic properties of the tissue. |
| 110831 | Perfusion | Scalar value related to the volume of blood perfusing into tissue. |
| 110832 | Speed of sound | Speed of sound in tissue. |
| 110833 | Ultrasound Attenuation | Reduction in strength of ultrasound signal as the wave. |
| 110834 | RGB R Component | Red component of a true color image (RGB). |
| 110835 | RGB G Component | Green component of a true color image (RGB). |
| 110836 | RGB B Component | Blue component of a true color image (RGB). |
| 110837 | YBR FULL Y Component | Y (Luminance) component of a YBR FULL image, as defined in JPEG 2000. |
| 110838 | YBR FULL CB Component | CB (Blue chrominance) component of a YBR FULL image, as defined in JPEG 2000. |
| 110839 | YBR FULL CR Component | CR (Red chrominance) component of a YBR FULL image, as defined in JPEG 2000. |
| 110840 | YBR PARTIAL Y Component | Y (Luminance) component of a YBR PARTIAL image, as defined in JPEG 2000. |
| 110841 | YBR PARTIAL CB Component | CB (Blue chrominance) component of a YBR PARTIAL image, as defined in JPEG 2000. |
| 110842 | YBR PARTIAL CR Component | CR (Red chrominance) component of a YBR PARTIAL image, as defined in JPEG 2000. |
| 110843 | YBR ICT Y Component | Y (Luminance) component of a YBR ICT image (Irreversible Color Transform), as defined in JPEG 2000. |
| 110844 | YBR ICT CB Component | CB (Blue chrominance) component of a YBR ICT image (Irreversible Color Transform), as defined in JPEG 2000. |
| 110845 | YBR ICT CR Component | CR (Red chrominance) component of a YBR ICT image (Irreversible Color Transform), as defined in JPEG 2000. |
| 110846 | YBR RCT Y Component | Y (Luminance) component of a YBR RCT image (Reversible Color Transform), as defined in JPEG 2000. |
| 110847 | YBR RCT CB Component | CB (Blue chrominance) component of a YBR RCT image (Reversible Color Transform), as defined in JPEG 2000. |

| Code Value | Code Meaning | Definition |
|------------|---------------------------------------|--|
| 110848 | YBR RCT CR Component | CR (Red chrominance) component of a YBR RCT image (Reversible Color Transform), as defined in JPEG 2000. |
| 110849 | Echogenicity | The ability of a material to create an ultrasound return echo. |
| 110850 | X-Ray Attenuation | Decrease in the number of photons in an X-Ray beam due to interactions with the atoms of a material substance. Attenuation is due primarily to two processes, absorption and scattering. |
| 110851 | X-Ray Attenuation Coefficient | <i>Coefficient that describes the fraction of a beam of X-Rays or gamma rays that is absorbed or scattered per unit thickness of the absorber. This value basically accounts for the number of atoms in a cubic cm volume of material and the probability of a photon being scattered or absorbed from the nucleus or an electron of one of these atoms.</i> |
| 110852 | MR signal intensity | Signal intensity of an MR image, not otherwise specified. |
| 110853 | Binary Segmentation | Binary value denoting that the segmented property is present. |
| 110854 | Fractional Probabilistic Segmentation | Probability, defined as a percentage, that the segmented property occupies the spatial area defined by the voxel. |
| 110855 | Fractional Occupancy Segmentation | Percentage of the voxel area occupied by the segmented property. |
| 110856 | Linear Displacement | Spatial dimension, denoting a linear displacement. |
| 110857 | Photon Energy | Dimension denoting the energy (frequency or wavelength) of photons. |
| 110858 | Time | Dimension used to sequence events, to compare the duration of events and the intervals between events. |
| 110859 | Angle | Spatial dimension, denoting an angle. |
| 110860 | Left-Right Axis | A spatial dimension axis running along a line between the patient's left and right side. |
| 110861 | Head-Foot Axis | A spatial dimension axis running along a line between the patient's head and foot. |
| 110862 | Anterior-Posterior Axis | A spatial dimension axis running along a line between the patient's anterior and posterior sides. |
| 110863 | Apex-Base Axis | A spatial dimension axis running along a line between the apex and base of an organ, object, or chamber. |
| 110864 | Anterior-Inferior Axis | A spatial dimension axis running along a line between the anterior and inferior sides of an organ, object, or chamber. |
| 110865 | Septum-Wall Axis | A spatial dimension axis running along a line between the septum and wall of a chamber. |
| 110866 | Right To Left | Orientation of a spatial dimension where increasing values run from the right to the left side of the patient. |
| 110867 | Left To Right | Orientation of a spatial dimension where increasing values run from the left to the right side of the patient. |
| 110868 | Head To Foot | Orientation of a spatial dimension where increasing values run from the head to the foot of the patient. |
| 110869 | Foot To Head | Orientation of a spatial dimension where increasing values run from the foot to the head of the patient. |
| 110870 | Anterior To Posterior | Orientation of a spatial dimension where increasing values run from the anterior to the posterior side of the patient. |
| 110871 | Posterior To Anterior | Orientation of a spatial dimension where increasing values run from the posterior to the anterior side of the patient. |
| 110872 | Apex To Base | Orientation of a spatial dimension where increasing values run from the apex to the base. |
| 110873 | Base To Apex | Orientation of a spatial dimension where increasing values run from the base to the apex. |
| 110874 | Anterior To Inferior | Orientation of a spatial dimension where increasing values run from the anterior to the inferior. |

| Code Value | Code Meaning | Definition | |
|------------|---|---|------------------------------|
| 110875 | Inferior To Anterior | Orientation of a spatial dimension where increasing values run from the inferior to the anterior. | |
| 110876 | Septum To Wall | Orientation of a spatial dimension where increasing values run from the septum of a chamber to the opposite wall. | |
| 110877 | Wall To Septum | Orientation of a spatial dimension where increasing values run from the opposite wall to the septum of a chamber. | |
| 110901 | Image Position (Patient) X | The x coordinate of the upper left hand corner (center of the first voxel transmitted) of the image, with respect to the patient-based coordinate system. | |
| 110902 | Image Position (Patient) Y | The y coordinate of the upper left hand corner (center of the first voxel transmitted) of the image, with respect to the patient-based coordinate system. | |
| 110903 | Image Position (Patient) Z | The z coordinate of the upper left hand corner (center of the first voxel transmitted) of the image, with respect to the patient-based coordinate system. | |
| 110904 | Image Orientation (Patient) Row X | The x value of the first row direction cosine with respect to the patient, with respect to the patient-based coordinate system. | |
| 110905 | Image Orientation (Patient) Row Y | The y value of the first row direction cosine with respect to the patient, with respect to the patient-based coordinate system. | |
| 110906 | Image Orientation (Patient) Row Z | The z value of the first row direction cosine with respect to the patient, with respect to the patient-based coordinate system. | |
| 110907 | Image Orientation (Patient) Column X | The x value of the first column direction cosine with respect to the patient, with respect to the patient-based coordinate system. | |
| 110908 | Image Orientation (Patient) Column Y | The y value of the first column direction cosine with respect to the patient, with respect to the patient-based coordinate system. | |
| 110909 | Image Orientation (Patient) Column Z | The z value of the first column direction cosine with respect to the patient, with respect to the patient-based coordinate system. | |
| 110910 | Pixel Data Rows | Number of rows in the pixel data of the image. | |
| 110911 | Pixel Data Columns | Number of columns in the pixel data of the image. | |
| 111001 | Algorithm Name | The name assigned by a manufacturer to a specific software algorithm. | |
| 111002 | Algorithm Parameters | The input parameters used by a manufacturer to configure the behavior of a specific software algorithm. | |
| 111003 | Algorithm Version | The software version identifier assigned by a manufacturer to a specific software algorithm. | |
| 111004 | Analysis Performed | The type of correlation applied to detection results. E.g., temporal, spatial. | |
| 111005 | Assessment Category | Assignment of intermediate or overall interpretation results to a general category. | |
| 111006 | <i>Breast composition</i> | <i>Assessment of annotating tissues in breast; generally including fatty, mixed or dense</i> | <i>Reti (F-0 com</i> |
| 111007 | Breast Outline including Pectoral Muscle Tissue | Purpose of reference for an SCOORD Content Item that is an outline of the breast that includes the pectoral muscle tissue | Purp Con COM |
| 111008 | Calcification Distribution | The type of distribution associated with detected calcifications. | |
| 111009 | Calcification Type | Identification of the morphology of detected calcifications. | |
| 111010 | Center | Purpose of reference for an SCOORD Content Item that identifies the central point of a finding or feature | Purp Con COM |
| 111011 | Certainty of Feature | The likelihood that the feature analyzed is in fact the type of feature identified. | |
| 111012 | Certainty of Finding | The likelihood that the finding detected is in fact the type of finding identified. | |
| 111013 | Certainty of Impression | The certainty that a device places on an impression, where 0 equals no certainty and 100 equals certainty. | |

| Code Value | Code Meaning | Definition |
|------------|--------------------------------------|---|
| 111014 | Clockface or region | A location identifier based on clockface numbering or anatomic subregion. |
| 111015 | Composite Feature | An item that is an inferred correlation relating two or more individual findings or features. |
| 111016 | Composite type | The inferred relationship between the findings or features making up a composite feature. |
| 111017 | CAD Processing and Findings Summary | General assessment of whether or not CAD processing was successful, and whether any findings resulted. |
| 111018 | Content Date | The date the data creation started. |
| 111019 | Content Time | The time the data creation started. |
| 111020 | Depth | A location identifier based on a feature's inferred distance from the surface of the associated anatomy. |
| 111021 | Description of Change | A textual description of the change that occurred over time in a qualitative characteristic of a feature. |
| 111022 | Detection Performed | The type of finding sought after by a specific algorithm applied to one image. |
| 111023 | Differential Diagnosis/Impression | A general change that occurred within an imaged area between a prior imaging procedure and the current imaging procedure. |
| 111024 | Failed Analyses | A group of analysis algorithms that were attempted, but failed. |
| 111025 | Failed Detections | A group of detection algorithms that were attempted, but failed. |
| 111026 | Horizontal Pixel Spacing | For projection radiography, the horizontal physical distance measured at the front plane of an Image Receptor housing between the center of each pixel (spacing between the centers of adjacent columns). For tomographic images, the horizontal physical distance in the patient between the center of each pixel. |
| 111027 | Image Laterality | Laterality of (possibly paired) body part contained in an image. |
| 111028 | Image Library | A container that references all image data used as evidence to produce a report. |
| 111029 | Image Quality Rating | A numeric value in the range 0 to 100, inclusive, where 0 is worst quality and 100 is best quality. |
| 111030 | Image Region | Purpose of reference for an SCOORD Content Item that identifies a specific region of interest within an image |
| 111031 | Image View | The projection of the anatomic region of interest on an image receptor. |
| 111032 | Image View Modifier | Modifier for Image View. |
| 111033 | Impression Description | Free-form text describing the overall or an individual impression. |
| 111034 | Individual Impression/Recommendation | A container for a group of related results from interpretation of one or more images and associated clinical information. |
| 111035 | Lesion Density | The X-Ray attenuation of a lesion relative to the expected attenuation of an equal volume of fibroglandular breast tissue. |
| 111036 | Mammography CAD Report | A structured report containing the results of computer-aided detection or diagnosis applied to breast imaging and associated clinical information. |
| 111037 | Margins | The characteristic of the boundary, edges or border of a detected lesion. |
| 111038 | Number of calcifications | The quantity of calcifications detected within an identified group or cluster. |
| 111039 | Object type | A non-lesion object identified within one or more images. |
| 111040 | Original Source | Purpose of reference for a COMPOSITE Content Item that identifies it as the original source of evidence for another Content Item in the report |
| 111041 | Outline | Purpose of reference for an SCOORD Content Item that identifies the outline or bounding region of a finding or feature |
| 111042 | Pathology | The inferred type of disease associated with an identified feature. |

| Code Value | Code Meaning | Definition | |
|------------|---------------------------------|---|--------------------|
| 111043 | Patient Orientation Column | The patient orientation relative to the image plane, specified by a value that designates the anatomical direction of the positive column axis (top to bottom). | |
| 111044 | Patient Orientation Row | The patient orientation relative to the image plane, specified by a value that designates the anatomical direction of the positive row axis (left to right). | |
| 111045 | Pectoral Muscle Outline | Purpose of reference for an SCOORD Content Item that is an outline of the pectoral muscle tissue only | Purp Con CON |
| 111046 | Percent Fibroglandular Tissue | Percent of breast area that is mammographically dense, excluding pectoralis muscle. | |
| 111047 | Probability of cancer | The likelihood that an identified finding or feature is cancerous. | |
| 111048 | Quadrant location | A location identifier based on the division of an area into four regions. | |
| 111049 | Qualitative Difference | A qualitative characteristic of a feature that has changed over time. | |
| 111050 | Quality Assessment | The effect of the quality of an image on its usability. | |
| 111051 | Quality Control Standard | The quality control standard used to make a quality assessment. | |
| 111052 | Quality Finding | A specific quality related deficiency detected within an image. | |
| 111053 | Recommended Follow-up | Recommended type of follow-up to an imaging procedure, based on interpreted results. | |
| 111054 | Recommended Follow-up Date | Recommended follow-up date to an imaging procedure, based on interpreted results. | |
| 111055 | Recommended Follow-up Interval | Recommended follow-up interval to an imaging procedure, based on interpreted results. | |
| 111056 | Rendering Intent | The recommendation of the producer of a Content Item regarding presentation of the Content Item by recipients of the report. | |
| 111057 | Scope of Feature | An indication of how widespread the detection of a feature is within the analyzed image data set. | |
| 111058 | Selected Region Description | A textual description of the contents of a selected region identified within an image. | |
| 111059 | Single Image Finding | An item that was detected on one image. | |
| 111060 | Study Date | Date on which the acquisition of the study information was started. | |
| 111061 | Study Time | Time at which the acquisition of the study information was started. | |
| 111062 | Successful Analyses | A group of analysis algorithms that were attempted and completed successfully. | |
| 111063 | Successful Detections | A group of detection algorithms that were attempted and completed successfully. | |
| 111064 | Summary of Detections | An overall indication of whether the CAD detection algorithms applied were completed successfully. | |
| 111065 | Summary of Analyses | An overall indication of whether the CAD analysis algorithms applied were completed successfully. | |
| 111066 | Vertical Pixel Spacing | For projection radiography, the vertical physical distance measured at the front plane of an Image Receptor housing between the center of each pixel (spacing between the centers of adjacent rows). For tomographic images, the vertical physical distance in the patient between the center of each pixel. | |
| 111069 | Crosstable | A radiographic projection that has been with the patient lying on a table with the X-Ray source on one side of the table and the detector on the other. E.g., may describe a cross-table cervical spine, chest or pelvis X-Ray image. | |
| 111071 | CAD Operating Point | One of a number of discrete points on the Receiver-Operator Characteristics (ROC) curve that reflects the expected sensitivity and specificity of a CAD algorithm, where zero indicates the highest specificity, lowest sensitivity operating point. The value should not exceed the Maximum CAD Operating Point. | |
| 111072 | Maximum CAD Operating Point | The maximum value of CAD Operating Point for the specific CAD algorithm used. | |
| 111081 | CAD Operating Point Description | The intended interpretation of a CAD Operating Point. | |
| 111086 | False Markers per Image | The number of false CAD markers per image. Correlates to inverse of Image Specificity. | |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 111087 | False Markers per Case | The number of false markers per collection of images that are CAD processed as a group. Correlates to inverse of Case Specificity. |
| 111088 | Case Sensitivity | The percentage of cancers that should be detected by a CAD algorithm where CAD marks the cancers in at least one view. |
| 111089 | Lesion Sensitivity | The percentage of cancers that should be detected by a CAD algorithm where CAD marks the cancers in each view. |
| 111090 | Case Specificity | The percentage of cases (collections of images CAD processed as a group) without cancer that have no CAD findings whatsoever. Correlates to inverse of False Markers per Case. |
| 111091 | Image Specificity | The percentage of images without cancer that have no CAD findings whatsoever. Correlates to inverse of False Markers per Image. |
| 111092 | Recommended CAD Operating Point | The CAD operating point that is recommended for initial display by the creator of the structured report. |
| 111093 | CAD Operating Point Table | A list of CAD operating points including their corresponding characteristics. |
| 111099 | Selected region | A specific area of interest noted within an image. |
| 111100 | Breast geometry | The surface shape of all or a portion of breast related anatomy. |
| 111101 | Image Quality | Image quality incorporates the following clinical image evaluation parameters: assessment of positioning, compression, artifacts, exposure, contrast, sharpness, and labeling. |
| 111102 | Non-lesion | A finding or feature that is identified as a non-anatomic foreign object. |
| 111103 | <i>Density</i> | <i>A space-occupying lesion identified in a single image or projection</i> |
| 111104 | <i>Individual Calcification</i> | <i>A single identified calcification</i> |
| 111105 | <i>Calcification Cluster</i> | <i>Multiple calcifications identified as occupying a small area of tissue (less than 2 cc)</i> |
| 111111 | Cooper's ligament changes | Straightening or thickening of Cooper's ligaments. |
| 111112 | Mass in the skin | An abnormality noted at imaging within the dermis of the breast. |
| 111113 | Mass on the skin | An abnormality noted at imaging on the epidermis of the breast. |
| 111120 | Post Procedure Mammograms for Marker Placement | An assessment category to indicate that images have been acquired to assess marker placement following a breast interventional procedure. |
| 111121 | Follow-up post biopsy as directed by clinician | An indication that the patient should seek post procedural follow-up directives from a clinical health care provider. |
| 111122 | Known biopsy proven malignancy - take appropriate action | A recommendation on a patient with known cancer to take steps appropriate to the diagnosis. |
| 111123 | Marker placement | Positioning of a radiopaque marker. |
| 111124 | Personal history of breast cancer with mastectomy | Patient has previous diagnosis of breast cancer resulting in mastectomy. |
| 111125 | Known biopsy proven malignancy | Patient has had biopsy containing proven malignancy. |
| 111126 | Image detected mass | Patient has a finding of mass reported on a prior imaging exam. |
| 111127 | Targeted | A breast imaging procedure performed on a specific area of the breast. |
| 111128 | Survey | A breast imaging procedure performed on the entire breast. |
| 111129 | Clustered microcysts | A cluster of tiny anechoic foci each smaller than 2-3 mm in diameter with thin (less than 0.5 mm) intervening septations and no discrete solid components. |

| Code Value | Code Meaning | Definition | |
|------------|--|---|-----------------------|
| 111130 | Complicated cyst | A fluid filled mass most commonly characterized by homogeneous low-level internal echoes on ultrasound. | |
| 111135 | Additional projections | Views not inclusive of MLO and CC (BI-RADS®). | |
| 111136 | Spot magnification view(s) | A spot or coned down compression of the breast providing a reduction in the thickness and a magnification of the localized area of interest and improved separation of breast tissue. | |
| 111137 | <i>Ultrasound</i> | | <i>Reti (P5-ultra</i> |
| 111138 | Old films for comparison | Obtain previous mammography studies to compare to present study. | |
| 111139 | <i>Ductography</i> | <i>A medical procedure used for the sampling of mammary duct tissue</i> | <i>Reti (P5-duct</i> |
| 111140 | Normal interval follow-up | Follow up study at 12 months for women ≥ 40 years of age having a prior negative study and no mitigating risk factors for breast cancer. | |
| 111141 | Any decision to biopsy should be based on clinical assessment | Any decision to perform tissue acquisition should be based on clinical assessment. | |
| 111142 | Follow-up at short interval (1-11 months) | Follow-up at short interval (1-11 months). | |
| 111143 | Biopsy should be considered | Tissue acquisition should be considered. | |
| 111144 | Needle localization and biopsy | Breast tissue acquisition following the identification of an area of concern with the placement of a needle or needle-wire assembly. | |
| 111145 | Histology using core biopsy | Pathologic analysis of breast tissue and lesions using core tissue samples. | |
| 111146 | Suggestive of malignancy - take appropriate action | Lesions that do not have the characteristic morphologies of breast cancer but have a definite probability of being malignant. There is a sufficient concern to urge a biopsy. | |
| 111147 | Cytologic analysis | Cellular analysis of specimen. | |
| 111148 | Biopsy should be strongly considered | Tissue acquisition should be strongly considered. | |
| 111149 | Highly suggestive of malignancy - take appropriate action | Lesions have a high probability of being cancer, which require additional action. | |
| 111150 | Presentation Required: Rendering device is expected to present | The producer of a report intends for a recipient of the report to present or display the associated Content Item. | |
| 111151 | Presentation Optional: Rendering device may present | The producer of a report considers the presentation or display of the associated Content Item by a recipient to be optional. | |
| 111152 | Not for Presentation: Rendering device expected not to present | The producer of a report intends for a recipient of the report NOT to present or display the associated Content Item. | |
| 111153 | Target content items are related temporally | The associated Content Items are identified as being the same finding or feature at different points in time. | |
| 111154 | Target content items are related spatially | The associated Content Items are identified as being the same finding or feature on different projections taken at the same point in time. | |
| 111155 | Target content items are related contra-laterally | The associated Content Items are identified as being related side-to-side. | |
| 111156 | Feature detected on the only image | There is one image in the interpreted data set. | |
| 111157 | Feature detected on only one of the images | There is more than one image of the same modality in the interpreted data set. | |
| 111158 | Feature detected on multiple images | There is more than one image of the same modality in the interpreted data set. | |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 111159 | Feature detected on images from multiple modalities | The interpreted data set contains images from multiple modalities. |
| 111168 | <i>Scar tissue</i> | <i>The fibrous tissue replacing normal tissues destroyed by disease or injury</i> |
| 111170 | <i>J Wire</i> | <i>A medical appliance used for localization of non palpable breast lesions to insure that the proper area is removed in a surgical biopsy</i> |
| 111171 | <i>Pacemaker</i> | <i>A medical appliance used for regulating cardiac rhythms</i> |
| 111172 | <i>Paddle</i> | <i>A compression device used for obtaining mammographic images</i> |
| 111173 | <i>Collimator</i> | <i>A device used for restricting an X-Ray beam</i> |
| 111174 | <i>ID Plate</i> | <i>An area designated on a radiographic film for facility and patient ID information</i> |
| 111175 | Other Marker | Site specific markers. |
| 111176 | Unspecified | The value of the concept is not specified |
| 111177 | View and Laterality Marker is missing | Image quality deficiency according to MQSA. |
| 111178 | View and Laterality Marker does not have both view and laterality | Image quality deficiency according to MQCM. |
| 111179 | View and Laterality Marker does not have approved codes | Image quality deficiency according to MQCM. |
| 111180 | View and Laterality Marker is not near the axilla | Image quality deficiency according to MQCM. |
| 111181 | View and Laterality Marker overlaps breast tissue | Image quality deficiency according to MQCM. |
| 111182 | View and Laterality Marker is partially obscured | Image quality deficiency according to MQCM. |
| 111183 | View and Laterality Marker is incorrect | Image quality deficiency. |
| 111184 | View and Laterality Marker is off image | Image quality deficiency. |
| 111185 | Flash is not near edge of film | Image quality deficiency according to MQCM. |
| 111186 | Flash is illegible, does not fit, or is lopsided | Image quality deficiency according to MQSA. |
| 111187 | Flash doesn't include patient name and additional patient id | Image quality deficiency according to MQCM. |
| 111188 | Flash doesn't include date of examination | Image quality deficiency according to MQCM. |
| 111189 | Flash doesn't include facility name and location | Image quality deficiency according to MQSA. |
| 111190 | Flash doesn't include technologist identification | Image quality deficiency according to MQCM. |

| Code Value | Code Meaning | Definition | |
|------------|---|--|--|
| 111191 | Flash doesn't include cassette/screen/detector identification | Image quality deficiency according to MQCM. | |
| 111192 | Flash doesn't include mammography unit identification | Image quality deficiency according to MQCM. | |
| 111193 | Date sticker is missing | Image quality deficiency according to MQCM. | |
| 111194 | Technical factors missing | Image quality deficiency according to MQCM. | |
| 111195 | Collimation too close to breast | Image quality deficiency according to MQCM. | |
| 111196 | Inadequate compression | Image quality deficiency according to MQCM. | |
| 111197 | MLO Insufficient pectoral muscle | Image quality deficiency according to MQCM. | |
| 111198 | MLO No fat is visualized posterior to fibroglandular tissues | Image quality deficiency according to MQCM. | |
| 111199 | MLO Poor separation of deep and superficial breast tissues | Image quality deficiency according to MQCM. | |
| 111200 | MLO Evidence of motion blur | Image quality deficiency according to MQCM. | |
| 111201 | MLO Inframammary fold is not open | Image quality deficiency according to MQCM. | |
| 111202 | CC Not all medial tissue visualized | Image quality deficiency according to MQCM. | |
| 111203 | CC Nipple not centered on image | Image quality deficiency according to MQCM. | |
| 111204 | CC Posterior nipple line does not measure within 1 cm of MLO | Image quality deficiency according to MQCM. | |
| 111205 | Nipple not in profile | Image quality deficiency. | |
| 111206 | Insufficient implant displacement incorrect | Image quality deficiency according to MQCM. | |
| 111207 | Image artifact(s) | Signals that do not faithfully reproduce actual anatomic structures because of distortion or of addition or deletion of information. | |
| 111208 | Grid artifact(s) | Feature(s) arising from the acquisition unit's anti-scatter grid mechanism. For two-dimensional systems, such features include those of mechanically damaged or incorrectly positioned grids. For moving or Bucky grids, artifacts may result from intentional grid motion that is inadequate in duration or velocity uniformity. | |
| 111209 | Positioning | Inadequate arrangement of the anatomy of interest with respect to the X-Ray field and image detector sensitive area. Examples: 1) positioning is "cutoff" when the projection of anatomy of interest falls outside the sensitive area of the detector; 2) "cone cut", in which the X-Ray field does not adequately cover the anatomy of interest; 3) detector's sensitive surface is too small to cover the projection of the anatomy of interest; 4) improper angular orientation or "rotation" of anatomy of interest with respect to the X-Ray source, or detector; 5) projection of other anatomy or clothing over the anatomy of interest in the image. | |
| 111210 | Motion blur | Unacceptable image blur resulting from motion of the anatomy of interest during exposure or the inadequately compensated motion of X-Ray source with respect to the image detector during exposure. | |
| 111211 | Under exposed | Inadequate number of quanta reached the detector during exposure. Reasons for under exposed images include low kVp, low mAs product, excess Source Image Distance. Under exposed images have inadequate signal and higher noise in the areas of interest. | |
| 111212 | Over exposed | An excess number of quanta reached the detector during exposure. Reasons for over exposed images include high kVp, high mAs product, short Source Image Distance. Over exposed images have high signal and lower noise in the areas of interest. Over exposed area may demonstrate lack of contrast from over saturation of the detector. | |
| 111213 | No image | No evidence of a patient exposure. | |
| 111214 | Detector artifact(s) | Superposed features or flaws of the detector. | |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 111215 | Artifact(s) other than grid or detector artifact | Features or discontinuities arising from causes other than the anti-scatter grid and image detector. |
| 111216 | Mechanical failure | Failure of the device to operate according to mechanical design specifications. |
| 111217 | Electrical failure | Failure of a device to operate according to electrical design specifications. |
| 111218 | Software failure | Attributable to software used in generation or handling of image. |
| 111219 | Inappropriate image processing | Images processed inappropriately, not following appropriate protocol. |
| 111220 | Other failure | Failure that is not mechanical or electrical or otherwise described. |
| 111221 | Unknown failure | Unidentified or unknown cause of failure. |
| 111222 | Succeeded | The attempted process was completely successful. |
| 111223 | Partially Succeeded | The attempted process succeeded in some ways, but failed in others. |
| 111224 | Failed | The attempted process completely failed. |
| 111225 | Not Attempted | No process was performed. |
| 111233 | Individual Impression / Recommendation Analysis | Analysis of a related group of findings or features detected during image data inspection, to produce a summary impression and/or recommendation. |
| 111234 | Overall Impression / Recommendation Analysis | Analysis of all groups of findings or features, to produce a single impression and/or recommendation. |
| 111235 | Unusable - Quality renders image unusable | The usability of an image for diagnostic interpretation or CAD, based on a quality control standard. |
| 111236 | Usable - Does not meet the quality control standard | The usability of an image for diagnostic interpretation or CAD, based on a quality control standard. |
| 111237 | Usable - Meets the quality control standard | The usability of an image for diagnostic interpretation or CAD, based on a quality control standard. |
| 111238 | Mammography Quality Control Manual 1999, ACR | An image quality control standard specified by the American College of Radiology. |
| 111239 | Title 21 CFR Section 900, Subpart B | An image quality control standard in the US Code of Federal Regulations. |
| 111240 | Institutionally defined quality control standard | An image quality control standard specified or adopted by the institution responsible for the document. |
| 111241 | All algorithms succeeded; without findings | No findings resulted upon successful completion of all attempted computer-aided detection and/or analysis. |
| 111242 | All algorithms succeeded; with findings | One or more findings resulted upon successful completion of all attempted computer-aided detection and/or analysis. |
| 111243 | Not all algorithms succeeded; without findings | No findings resulted from the attempted computer-aided detection and/or analysis, but one or more failures occurred in the process. |
| 111244 | Not all algorithms succeeded; with findings | One or more findings resulted from the attempted computer-aided detection and/or analysis, but one or more failures occurred in the process. |
| 111245 | No algorithms succeeded; without findings | All of the attempted computer-aided detection and/or analysis failed, so there could be no findings. |
| 111248 | <i>Adenolipoma</i> | <i>A benign tumor having glandular characteristics but composed of fat, with the presence of normal mammary ducts</i> |
| 111249 | <i>Ductal hyperplasia</i> | |
| 111250 | <i>Adenomyoepithelioma</i> | <i>Neoplasms composed of myoepithelial cells</i> |

| Code Value | Code Meaning | Definition | |
|------------|--|---|------------------------------|
| 111251 | Normal axillary node | Axillary node that is normal in appearance with no associated pathology. | |
| 111252 | Axillary node with calcifications | Axillary node containing calcifications. | |
| 111253 | Axillary node hyperplasia | Excessive proliferation of normal tissue arrangement of the axillary node. | |
| 111254 | <i>Asynchronous involution</i> | | Reti (F-8 "Asy brea |
| 111255 | Benign cyst with blood | Cyst with benign morphology containing blood. | |
| 111256 | Benign Calcifications | Calcifications having typically benign morphology. They are not of intermediate or high probability of concern for malignancy. | |
| 111257 | <i>Intracystic papilloma</i> | <i>Growing within a cystic adenoma, filling the cavity with a mass of branching epithelial processes</i> | Reti (M-8 pap |
| 111258 | Ductal adenoma | Adenoma located in mammary duct, present as discrete sclerotic nodules, solitary or multiple. | |
| 111259 | Diabetic fibrous mastopathy | The occurrence of fibrous tumor-forming stromal proliferation in patients with diabetes mellitus. | |
| 111260 | <i>Extra abdominal desmoid</i> | <i>A deep seated firm tumor frequently occurring on the chest consisting of collagenous tissue that infiltrates surround muscle; frequently recurs but does not metastasize</i> | Reti (M-8 abdo |
| 111262 | <i>Epidermal inclusion cyst</i> | <i>A cyst formed of a mass of epithelial cells, as a result of trauma has been pushed beneath the epidermis. The cyst is lined with squamous epithelium and contains concentric layers or keratin</i> | Reti (M-3 inclu |
| 111263 | Fibroadenomatoid hyperplasia | Excessive proliferation of fibroadenoma tissue. | |
| 111264 | Fibroadenolipoma | A lipoma with an abundant stroma of fibrous tissue. | |
| 111265 | <i>Foreign body (reaction)</i> | | Reti (M-4 body |
| 111269 | <i>Galactocele</i> | <i>Retention cyst caused by occlusion of a lactiferous duct</i> | Reti (D7- "Ga |
| 111271 | <i>Hemangioma - nonparenchymal, subcutaneous</i> | <i>A congenital anomaly that leads to a proliferation of blood vessels leading to a mass that resembles a neoplasm, not located in parenchymal areas but subcutaneous</i> | Reti (D3- "He subc |
| 111273 | <i>Hyperplasia, usual</i> | | Reti (M-7 usua |
| 111277 | Juvenile papillomatosis | A form of fibrocystic disease in young woman with florid and sclerosing adenosis that microscopically may suggest carcinoma. | |
| 111278 | <i>Lactating adenoma</i> | <i>Enlarging masses during lactation. A circumscribed benign tumor composed primarily of glandular structures with scanty stroma, with prominent secretory changes in the duct</i> | Reti (M-8 ade |
| 111279 | Lactational change | Changes related to the process of lactation. | |
| 111281 | Large duct papilloma | A papilloma pertaining to large mammary duct. | |
| 111283 | <i>Myofibroblastoma</i> | <i>Solitary or multiple tumors of muscles and fibrous tissues, or tumors composed of myofibroblasts</i> | Reti (M-8 "My |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 111284 | Microglandular adenosis | Irregular clusters of small tubules are present in adipose or fibrous tissue, resembling tubular carcinoma but lacking stromal fibroblastic proliferation. |
| 111285 | Multiple Intraductal Papillomas | Papilloma typically involving an aggregate of adjacent ducts in the periphery of the breast, likely representing involvement of several foci of one or two duct systems. |
| 111286 | No abnormality | No abnormality. |
| 111287 | Normal breast tissue | Normal breast tissue. |
| 111288 | <i>Neurofibromatosis</i> | <i>Condition in which there are tumors of various sizes on peripheral nerves. They may be neuromas or fibromas</i> |
| 111290 | Oil cyst (fat necrosis cyst) | A cyst resulting from the loss of the epithelial lining of a sebaceous dermoid or lacteal cyst. |
| 111291 | Post reduction mammoplasty | Breast tissue with characteristics of a benign nature, following breast reduction surgery. |
| 111292 | Pseudoangiomatous stromal hyperplasia | A benign stromal lesion composed of intermixed stromal and epithelial elements. The lobular and duct structures of the breast parenchyma are separated by an increased amount of stroma, non specific proliferative epithelial changes include hyperplasia of duct and lobular epithelium often with accentuation of myoepithelial cells and apocrine metaplasia with or without cyst formation. |
| 111293 | <i>Radial scar</i> | <i>An nonencapsulated stellate lesion consisting of a fibroelastic core and radiating bands of fibrous connective tissue containing lobules manifesting adenosis and ducts with papillary or diffuse intraductal hyperplasia</i> |
| 111294 | <i>Sclerosing adenosis</i> | <i>Prominent interductal fibrosis of the terminal ductules</i> |
| 111296 | Silicone granuloma | Nodular inflammatory lesions due to the presence of silicone in the breast tissue. |
| 111297 | Nipple Characteristic | The morphologic status of the nipple. |
| 111298 | Virginal hyperplasia | Spontaneous excessive proliferation of breast tissue, usually found in younger women. |
| 111299 | Peripheral duct papillomas | Papilloma(s) pertaining the peripheral ducts. |
| 111300 | Axillary node with lymphoma | Axillary node with lymphoid tissue neoplasm. |
| 111301 | Axillary nodal metastases | Metastatic disease to the axillary node. |
| 111302 | <i>Angiosarcoma</i> | <i>A malignant neoplasm occurring most often in breast and skin, believed to originate from endothelial cells of blood vessels, microscopically composed of closely packed round or spindle shaped cells, some of which line small spaces resembling vascular clefts</i> |
| 111303 | Blood vessel (vascular) invasion | Histological changes to the vascular system related to an invasive process. |
| 111304 | Carcinoma in children | Carcinoma of the breast found in patients less than 20 years of age. |
| 111305 | Carcinoma in ectopic breast | A carcinoma found in supernumerary breasts and aberrant breast tissue. |
| 111306 | Carcinoma with endocrine differentiation | A carcinoma that synthesizes substances, including hormones, not considered to be normal products of the breast. |
| 111307 | Basal cell carcinoma of nipple | A basal cell carcinoma that arises in the nipple of the breast. |
| 111308 | <i>Carcinoma with metaplasia</i> | |
| 111309 | Cartilaginous and osseous change | Tissue changes to bones and cartilage. |
| 111310 | Carcinoma in pregnancy and lactation | Carcinoma of the breast presenting during pregnancy or lactation. |
| 111311 | <i>Carcinosarcoma</i> | <i>A malignant neoplasm that contains elements of carcinoma and sarcoma, so extensively intermixed as to indicate neoplasia of epithelial and mesenchymal tissue</i> |

| Code Value | Code Meaning | Definition | |
|------------|---|--|------------------------|
| 111312 | Intraductal comedocarcinoma with necrosis | Comedocarcinoma of a duct with areas of necrotic tissue. | |
| 111313 | Intraductal carcinoma, low grade | A non-invasive carcinoma restricted to the glandular lumen characterized by less aggressive malignant cytologic features and behavior. | |
| 111314 | <i>Intraductal carcinoma micro-papillary</i> | | <i>Reti (M-8 caro</i> |
| 111315 | Intracystic papillary carcinoma | A malignant neoplasm characterized by the formation of numerous, irregular, finger-like projections of fibrous stroma that is covered with a surface layer of neoplastic epithelial cells found in a cyst. | |
| 111316 | Invasive and in-situ carcinoma | Carcinoma with both characteristics of localized and spreading disease. | |
| 111317 | <i>Invasive lobular carcinoma</i> | | <i>Reti (M-8 lobu</i> |
| 111318 | Leukemic infiltration | Mammary infiltrates as a secondary manifestation in patients with established leukemia. | |
| 111320 | Lymphatic vessel invasion | Histological changes to the lymphatic system related to an invasive process. | |
| 111321 | <i>Lymphoma</i> | <i>A heterogeneous group of neoplasms arising in the reticuloendothelial and lymphatic systems</i> | <i>Reti (M-8 "Lyn</i> |
| 111322 | Occult carcinoma presenting with axillary lymph node metastases | A small carcinoma, either asymptomatic or giving rise to metastases without symptoms due to the primary carcinoma presenting with metastatic disease in the axillary lymph nodes. | |
| 111323 | Metastatic cancer to the breast | A malignant lesion in the breast with morphologic patterns not typical of breast carcinoma arising from a non-mammary malignant neoplasm. | |
| 111324 | Metastatic cancer to the breast from the colon | A malignant lesion in the breast with morphologic patterns not typical of breast carcinoma arising from a neoplasm in the colon. | |
| 111325 | Metastatic cancer to the breast from the lung | A malignant lesion in the breast with morphologic patterns not typical of breast carcinoma arising from a neoplasm in the lung. | |
| 111326 | Metastatic melanoma to the breast | A malignant lesion in the breast with morphologic patterns not typical of breast carcinoma arising from a melanoma. | |
| 111327 | Metastatic cancer to the breast from the ovary | A malignant lesion in the breast with morphologic patterns not typical of breast carcinoma arising from a neoplasm in the ovary. | |
| 111328 | Metastatic sarcoma to the breast | A malignant lesion in the breast with morphologic patterns not typical of breast carcinoma arising from a sarcoma. | |
| 111329 | Multifocal intraductal carcinoma | Multiple foci of non-invasive carcinoma restricted to the glandular lumen. | |
| 111330 | Metastatic disease to axillary node | A malignant lesion in an axillary node arising from a non-axillary neoplasm. | |
| 111331 | <i>Malignant fibrous histiocytoma</i> | | <i>Reti (M-8 fibro</i> |
| 111332 | Multifocal invasive ductal carcinoma | Multiple sites of ductal carcinoma. | |
| 111333 | Metastasis to an intramammary lymph node | A malignant lesion in a intramammary lymph node arising from a non-intramammary lymph node neoplasm. | |
| 111334 | Malignant melanoma of nipple | A malignant melanoma of the skin that arises in the nipple of the breast. | |
| 111335 | <i>Neoplasm of the mammary skin</i> | | <i>Reti (D0- of th</i> |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 111336 | <i>Papillary carcinoma in-situ</i> | |
| 111338 | Recurrent malignancy | Recurrent malignancy. |
| 111340 | Squamous cell carcinoma of the nipple | Squamous cell carcinoma to the terminal portion of the alveolar. |
| 111341 | Intraductal carcinoma, high grade | A non-invasive carcinoma restricted to the glandular lumen characterized by more aggressive malignant cytologic features and behavior. |
| 111342 | <i>Invasive cribriform carcinoma</i> | |
| 111343 | Angular margins | An indication that some or all of the margin of a lesion has sharp corners, often forming acute angles. |
| 111344 | Fine pleomorphic calcification | Calcifications that vary in sizes and shapes and are usually smaller than 0.5 mm in diameter. |
| 111345 | Macrocalcifications | Coarse calcifications that are 0.5 mm or greater in size. |
| 111346 | Calcifications within a mass | An indicator that calcifications are imbedded within a mass. |
| 111347 | Calcifications outside of a mass | An indicator that calcifications are imaged outside of a mass finding. |
| 111350 | Breast background echotexture | Tissue composition of the breast noted on sonography. |
| 111351 | Homogeneous fat echotexture | Fat lobules and uniformly echogenic bands of supporting structures comprise the bulk of breast tissue. |
| 111352 | Homogeneous fibroglandular echotexture | A uniformly echogenic layer of fibroglandular tissue is seen beneath a thin layer of subcutaneous fat. |
| 111353 | Heterogeneous echotexture | The breast texture is characterized by multiple small areas of increased and decreased echogenicity. |
| 111354 | Orientation | Referential relationship of the finding to the imaging device as noted on sonography. |
| 111355 | Parallel | The long axis of a lesion parallels the skin line ("wider-than-tall" or in a horizontal orientation). |
| 111356 | Not parallel | The anterior-posterior or vertical dimension is greater than the transverse or horizontal dimension. |
| 111357 | Lesion boundary | The lesion boundary describes the transition zone between the mass and the surrounding tissue. |
| 111358 | Abrupt interface | The sharp demarcation between the lesion and surrounding tissue can be imperceptible or a distinct well-defined echogenic rim of any thickness. |
| 111359 | Echogenic halo | There is no sharp demarcation between the mass and the surrounding tissue, which is bridged by an echogenic transition zone. |
| 111360 | Echo pattern | An imaging characteristic of resonance noted during sonography. |
| 111361 | Anechoic | Without internal echoes. |
| 111362 | Hyperechoic | Having increased echogenicity relative to fat or equal to fibroglandular tissue. |
| 111363 | Complex | Mass contains both anechoic and echogenic components. |
| 111364 | Hypoechoic | Defined relative to fat; masses are characterized by low-level echoes throughout. E.g., appearance of a complicated cyst or fibroadenoma. |
| 111365 | Isoechoic | Having the same echogenicity as fat (a complicated cyst or fibroadenoma may be isoechoic or hypoechoic). |
| 111366 | Posterior acoustic features | The attenuation characteristics of a mass with respect to its acoustic transmission. |
| 111367 | No posterior acoustic features | No posterior shadowing or enhancement. |

| Code Value | Code Meaning | Definition | |
|------------|---|--|--|
| 111368 | Posterior enhancement | Increased posterior echoes. | |
| 111369 | Posterior shadowing | Decreased posterior echoes; edge shadows are excluded. | |
| 111370 | Combined posterior enhancement and shadowing | More than one pattern of posterior attenuation, both shadowing and enhancement. | |
| 111371 | Identifiable effect on surrounding tissues | Sonographic appearance of adjacent structures relative to a mass finding. | |
| 111372 | Vascularity | Characterization of vascularization in region of interest. | |
| 111373 | Vascularity not present | Vascularity not evident, such as on ultrasound. | |
| 111374 | Vascularity not assessed | Vascularity not evaluated. | |
| 111375 | Vascularity present in lesion | Vascularity on imaging is seen within a lesion. | |
| 111376 | Vascularity present immediately adjacent to lesion | Vascularity on imaging is seen immediately adjacent to a lesion. | |
| 111377 | Diffusely increased vascularity in surrounding tissue | Vascularity on imaging is considered diffusely elevated within the surrounding breast tissue. | |
| 111380 | Correlation to other Findings | Relationship of the new anomaly to other clinical or imaging anomalies. | |
| 111381 | Correlates to physical exam findings | An indication that the current imaging finding relates to a finding from a clinical breast exam. | |
| 111382 | Correlates to mammography findings | An indication that the current imaging finding relates to a finding from a mammography exam. | |
| 111383 | Correlates to MRI findings | An indication that the current imaging finding relates to a finding from a breast MRI exam. | |
| 111384 | Correlates to ultrasound findings | An indication that the current imaging finding relates to a finding from a breast ultrasound exam. | |
| 111385 | Correlates to other imaging findings | An indication that the current imaging finding relates to a finding from an imaging exam. | |
| 111386 | No correlation to other imaging findings | An indication that the current imaging finding has no relation to findings from any other imaging exam. | |
| 111387 | No correlation to clinical findings | An indication that the current imaging finding has no relation to any other clinical findings. | |
| 111388 | Malignancy Type | Classification of the cancer as invasive, DCIS, or other. | |
| 111389 | Invasive breast carcinoma | A malignancy that has spread beyond an area of focus. | |
| 111390 | Other malignancy type | A breast cancer with malignant pathology findings that are not classified as invasive or in situ. | |
| 111391 | Menstrual Cycle Phase | A specific timeframe during menses. | |
| 111392 | 1st week | In the first week of the menstrual cycle phase, that is, one week following menses. | |
| 111393 | 2nd week | In the second week of the menstrual cycle phase, that is, two weeks following menses. | |
| 111394 | 3rd week | In the third week of the menstrual cycle phase, that is, three weeks following menses. | |
| 111395 | Estimated Timeframe | An estimated period of time. | |
| 111396 | < 3 months ago | An event occurred less than 3 months ago. | |
| 111397 | 4 months to 1 year ago | An event occurred between 4 months and 1 year ago. | |
| 111398 | > 1 year ago | An event occurred longer than 1 year ago. | |
| 111399 | Timeframe uncertain | The timing of an event is not recalled. | |
| 111400 | Breast Imaging Report | Report title for the diagnostic report for one or more breast imaging or intervention procedures. | |
| 111401 | Reason for procedure | Concept name for the description of why a procedure has been performed. | |
| 111402 | Clinical Finding | A finding during clinical examination (i.e., history and physical examination) such as pain, palpable mass or discharge. | |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 111403 | Baseline screening mammogram | First screening mammogram taken for patient that is used as a comparison baseline for further examinations. |
| 111404 | First mammogram ever | First mammogram taken for a patient without regard to whether it was for screening or a diagnostic procedure. |
| 111405 | Implant type | Concept name for the material of which a breast prosthetic device is constructed. |
| 111406 | Number of similar findings | A numeric count of findings classified as similar in nature. |
| 111407 | Implant finding | Concept name for the status of a breast prosthetic device as noted by imaging. |
| 111408 | Film Screen Mammography | Mammogram using traditional X-Ray film. |
| 111409 | Digital Mammography | Mammogram using a digital image acquisition system. |
| 111410 | Surgical consult | Referred for evaluation by a surgeon. |
| 111411 | Mammography CAD | Computer aided detection and/or computer aided diagnosis for mammography. |
| 111412 | Narrative Summary | Concept name for a text-based section of a report. |
| 111413 | Overall Assessment | A title for a report section that summarizes all interpretation results for a report with one overriding assessment. E.g., benign or negative. |
| 111414 | Supplementary Data | Concept name for a collection of supporting evidence for a report. |
| 111415 | Additional evaluation requested from prior study | Prior study indicates that additional imaging be performed to further evaluate a suspicious or questionable anatomic region. |
| 111416 | Follow-up at short interval from prior study | The prior study recommended a follow-up breast imaging exam in 1 to 11 months (generally in 6 months). |
| 111417 | History of breast augmentation, asymptomatic | Prior breast augmentation (breast enlargement) and is not presenting with any symptoms. |
| 111418 | Review of an outside study | Review or second opinion made on an image performed outside of the facility. |
| 111419 | Additional evaluation requested from abnormal screening exam | Additional breast imaging performed at the time of the patient's screening mammogram. |
| 111420 | History of benign breast biopsy | Patient has had previous benign breast biopsies. |
| 111421 | Personal history of breast cancer with breast conservation therapy | Patient has had a prior surgery such as a lumpectomy or quadrantectomy to remove malignant breast tissue, but breast tissue remains. |
| 111423 | Physical Examination Results | The results of a physical examination performed on the patient, possibly including the results of inspection, palpation, auscultation, or percussion. |
| 111424 | Comparison to previous findings | The result of assessing the current imaging exam in comparison to previous imaging exams. |
| 111425 | Intraluminal filling defect | An abnormality observed during ductography where the ductal system within the breast fills in an abnormal pattern. Ductography is an imaging exam in which a radio opaque contrast media is introduced into the ductal system of the breast through the nipple and images of the ductal system are obtained. |
| 111426 | Multiple filling defect | During ductography an observation of more than one filling abnormality within the breast ductal system. |
| 111427 | Abrupt duct termination | An abnormality observed during ductography where the ductal system within the breast terminates in an unusual fashion. |
| 111428 | Extravasation | Abnormal flowage of contrast media within the breast noted on ductography. |
| 111429 | Duct narrowing | An abnormality observed during ductography where the ductal system within the breast appears narrow. |
| 111430 | Cyst fill | During ductography an observation of the contrast media filling a cyst within the breast. |
| 111431 | Instrument Approach | The area and line within the anatomy through which a needle or instrument passes during an interventional procedure. |
| 111432 | Inferolateral to superomedial | The line within the anatomy from the lower outer to the upper inner aspect. E.g., through which a needle or instrument passes in an interventional procedure. |

| Code Value | Code Meaning | Definition | |
|------------|---|---|-----------------------|
| 111433 | Inferomedial to superolateral | The line within the anatomy from the lower inner to the upper outer aspect. E.g., through which a needle or instrument passes in an interventional procedure. | |
| 111434 | Superolateral to inferomedial | The line within the anatomy from the upper outer to the lower inner aspect. E.g., through which a needle or instrument passes in an interventional procedure. | |
| 111435 | Superomedial to inferolateral | The line within the anatomy from the upper inner to the lower outer aspect. E.g., through which a needle or instrument passes in an interventional procedure. | |
| 111436 | Number of passes | The number of times a biopsy instrument is passed through an area of interest. | |
| 111437 | Number of specimens | The number of biopsy specimens obtained from an interventional procedure. | |
| 111438 | Needle in target | An indicator of whether or not a biopsy or localizing needle in an interventional procedure is seen to be in the area of interest. | |
| 111439 | Number of needles around target | The number of localizing needles placed around the area of interest in an interventional procedure. | |
| 111440 | Incision made | An indicator of whether or not an incision was made in the anatomy during an interventional procedure. | |
| 111441 | <i>Microclip placed</i> | <i>An indicator of whether or not a radio opaque microclip was placed in the anatomy during an interventional procedure.</i> | <i>Reti (111 plac</i> |
| 111442 | Confirmation of target | An indicator of the degree of success of an interventional procedure. | |
| 111443 | Target completely contained in the specimen | An indicator that during an interventional procedure the area of interest was fully excised and is noted in the resultant biopsy specimen. | |
| 111444 | Target partially obtained in the specimen | An indicator that during an interventional procedure the area of interest was partially excised and is noted in the resultant biopsy specimen. | |
| 111445 | Target not in the specimen | An indicator that following an interventional procedure the area of interest is not seen in the resultant biopsy specimen. | |
| 111446 | Calcifications seen in the core | An indicator that following an interventional procedure the targeted calcifications are noted in the resultant biopsy specimen. | |
| 111447 | Lesion completely removed | An indicator that during an interventional procedure the area of interest was fully excised and is noted in the resultant biopsy specimen. | |
| 111448 | Lesion partially removed | An indicator that during an interventional procedure the area of interest was partially excised and is noted in the resultant biopsy specimen. | |
| 111449 | Fluid obtained | An indicator that during an interventional procedure fluid was successfully aspirated. | |
| 111450 | Light brown color | Color that is a light shade of brown. | |
| 111451 | Dark red color | Color that is a dark shade of red. | |
| 111452 | Dark brown color | Color that is a dark shade of brown. | |
| 111453 | Bright red color | Color that is a bright shade of red. | |
| 111454 | Blood tinged color | Color that is tinged with the color of blood. | |
| 111455 | Occult blood test result | An indicator of whether or not the fluid obtained during an interventional procedure contains red blood cells. | |
| 111456 | Action on fluid | An indicator of whether or not fluid during an interventional procedure was sent for cytological analysis or simply discarded. | |
| 111457 | Sent for analysis | An indicator that fluid obtained during an interventional procedure was sent to a laboratory for analysis. | |
| 111458 | Discarded | An indicator that fluid obtained during an interventional procedure was discarded. | |
| 111459 | Mass with calcifications | A radiopaque density noted during diagnostic imaging that has associated calcific densities. | |
| 111460 | Complex cyst | A fluid-filled sac with greater than normal characteristics. | |
| 111461 | Intracystic lesion | A tumor within a cyst. | |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 111462 | Solid mass | A tumor or lesion. |
| 111463 | Supplementary Data for Intervention | Supporting evidence for interpretation results of an interventional procedure. |
| 111464 | Procedure Modifier | A descriptor that further qualifies or characterizes a type of procedure. |
| 111465 | Needle Gauge | Needle size (diameter) characterization. E.g., of a biopsy needle. |
| 111466 | Severity of Complication | An indicator of the gravity of a problem experienced by a patient, related to a procedure that was performed. |
| 111467 | Needle Length | Distance from the hub or bushing to the tip of the needle. |
| 111468 | Pathology Results | The collection of observations and findings from pathologic analysis. |
| 111469 | Sampling DateTime | The date and time that the sample was collected from the patient. |
| 111470 | Uninvolved | Indicates that the margin of the biopsy specimen was not involved with the tumor. |
| 111471 | Involved | Indicates that the margin of the biopsy specimen was involved with the tumor. |
| 111472 | Nipple involved | Indicates whether the nipple was involved in an interventional procedure or pathologic analysis. |
| 111473 | Number of nodes removed | Indicates the number of lymph nodes removed. |
| 111474 | Number of nodes positive | Indicates the number of lymph nodes removed that contain cancer cells. |
| 111475 | Estrogen receptor | The result of a test for the presence of a protein that binds with estrogen. |
| 111476 | Progesterone receptor | The result of a test for the presence of a protein that binds with progesterone. |
| 111477 | S Phase | Indicates the percentage of cells in S phase. Cell division is defined by phases; the S phase is the stage during which DNA replicates. |
| 111478 | Non-bloody discharge (from nipple) | The visible emission of non-bloody fluid from the nipple. |
| 111479 | Difficult physical/clinical examination | The inability to discern normal versus abnormal breast tissue during palpation. |
| 111480 | Cancer elsewhere | An indication that a patient has or had a malignant occurrence in an area of the body other than the breast. |
| 111481 | Saline implant | A salt water filled prosthetic device implanted in the breast. |
| 111482 | Polyurethane implant | A polymer based (plastic) prosthetic device implanted in the breast. |
| 111483 | Percutaneous silicone injection | The introduction of polymeric organic silicon based material through the skin, as for breast augmentation or reconstruction. |
| 111484 | Combination implant | A prosthetic device that contains more than one material implanted in the breast. |
| 111485 | Pre-pectoral implant | A breast implant placed in front of the pectoralis major muscle. |
| 111486 | Retro-pectoral implant | A breast implant placed behind the pectoralis major muscle. |
| 111487 | Mammographic (crosshair) | Using X-Ray technique and a superimposed set of crossed lines for detection or placement. |
| 111488 | Mammographic (grid) | Using X-Ray technique and a superimposed aperture for detection or placement. |
| 111489 | Palpation guided | Using physical touch for detection or placement. |
| 111490 | Vacuum assisted | The performance of a biopsy procedure using a vacuum device attached to the biopsy needle. |
| 111491 | Abnormal discharge | Unusual or unexpected emission of fluid. |
| 111492 | No complications | Having experienced no adverse medical conditions related to or resulting from an interventional procedure. |
| 111494 | Stage 0 | TNM grouping of tumor stage, from AJCC, where primary tumor is Tis, regional lymph node is N0, and distant metastasis is M0. |
| 111495 | Stage I | TNM grouping of tumor stage, from AJCC, where primary tumor is T1, regional lymph node is N0, and distant metastasis is M0. |

| Code Value | Code Meaning | Definition | |
|------------|---|---|---------------------|
| 111496 | Stage IIA | TNM grouping of tumor stage, from AJCC, where primary tumor is T0 or T1, with regional lymph node N1 and distant metastasis is M0, or T2 with N0 and M0. | |
| 111497 | Stage IIB | TNM grouping of tumor stage, from AJCC, where primary tumor is T2, with regional lymph node N1 and distant metastasis is M0, or T3 with N0 and M0. | |
| 111498 | Stage IIIA | TNM grouping of tumor stage, from AJCC, where primary tumor is T0, T1 or T2, with regional lymph node N2 and distant metastasis is M0, or T3 with N1 or N2 and M0. | |
| 111499 | Stage IIIB | TNM grouping of tumor stage, from AJCC, where primary tumor is T4, regional lymph node is N0, N1 or N2, and distant metastasis is M0. | |
| 111500 | Stage IIIC | TNM grouping of tumor stage, from AJCC, where primary tumor is any T value, regional lymph node is N3, and distant metastasis is M0. | |
| 111501 | Stage IV | TNM grouping of tumor stage, from AJCC, where primary tumor is any T value, regional lymph node is any N value, and distant metastasis is M1. | |
| 111502 | Bloom-Richardson Grade | Histologic tumor grade (sometimes called Scarff-Bloom-Richardson grade) is based on the arrangement of the cells in relation to each other -- whether they form tubules, how closely they resemble normal breast cells (nuclear grade) and how many of the cancer cells are in the process of dividing (mitotic count). | |
| 111503 | Normal implants | Breast prosthetic devices are intact, not leaking, and are in a normal shape and form. | |
| 111504 | Asymmetric implants | Breast prosthetic devices are not symmetric, equal, corresponding in form, or are in one breast (unilateral). | |
| 111505 | Calcified implant | Fibrous or calcific contracture of the tissue capsule that forms around a breast prosthetic device. | |
| 111506 | Distorted implant | Breast prosthetic device is twisted out of normal shape or form. | |
| 111507 | Silicone-laden lymph nodes | Silicone from breast prosthetic device found in lymphatic tissue. | |
| 111508 | Free silicone | Silicone found in breast tissue outside of the prosthetic capsule or implant membrane. | |
| 111509 | Herniated implant | Protrusion of part of the structure normally encapsulating the content of the breast prosthetic device. | |
| 111510 | Explantation | Evidence of removal of a breast prosthetic device. | |
| 111511 | Relevant Patient Information for Breast Imaging | Historical patient health information of interest to the breast health clinician. | |
| 111512 | <i>Medication History</i> | <i>Information regarding usage by the patient of certain medications, such as hormones.</i> | Reti (101 Med |
| 111513 | Relevant Previous Procedures | Interventional or non-interventional procedures previously performed on the patient, such as breast biopsies. | |
| 111514 | <i>Relevant Indicated Problems</i> | <i>Abnormal conditions experienced by the patient that serve as the reason for performing a procedure, such as a breast exam.</i> | Reti (114 |
| 111515 | Relevant Risk Factors | Personal, familial, and other health factors that may indicate an increase in the patient's chances of developing a health condition or disease, such as breast cancer. | |
| 111516 | Medication Type | A classification of a medicinal substance, such as hormonal contraceptive or antibiotic. | |
| 111517 | Relevant Patient Information | Historical patient health information for general purpose use. | |
| 111518 | Age when first menstrual period occurred | The age of the patient at the first occurrence of menses. | |
| 111519 | Age at First Full Term Pregnancy | The age of the patient at the time of her first full term pregnancy. | |
| 111520 | Age at Menopause | The age of the patient at the cessation of menses. | |
| 111521 | Age when hysterectomy performed | The age of the patient at the time her uterus was removed. | |
| 111522 | Age when left ovary removed | The age of the patient at the time she had her left ovary removed. | |
| 111523 | Age when right ovary removed | The age of the patient at the time she had her right ovary removed. | |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 111524 | Age Started | The age of a patient on the first occurrence of an event, such as the first use of a medication. |
| 111525 | Age Ended | The age of a patient on the last occurrence of an event, such as the last use of a medication. |
| 111526 | DateTime Started | The date and time of the first occurrence of an event, such as the first use of a medication. |
| 111527 | DateTime Ended | The date and time of the last occurrence of an event, such as the last use of a medication. |
| 111528 | Ongoing | An indicator of whether an event is still in progress, such as the use of a medication or substance, or environmental exposure. |
| 111529 | Brand Name | Product name of a device or substance, such as medication, to identify it as the product of a single firm or manufacturer. |
| 111530 | Risk Factor modifier | A descriptor that further qualifies or characterizes a risk factor. |
| 111531 | Previous Procedure | A prior non-interventional exam or interventional procedure performed on a patient. |
| 111532 | <i>Pregnancy Status</i> | <i>Describes the pregnancy state of a referenced subject.</i> |
| 111533 | Indicated Problem | A symptom experienced by a patient that is used as the reason for performing an exam or procedure. |
| 111534 | Role of person reporting | The function of the individual who is reporting information on a patient, which could be a specific health care related profession, the patient him/herself, or a relative or friend. |
| 111535 | DateTime problem observed | The date and time that a symptom was noted. |
| 111536 | DateTime of last evaluation | The date and time of the most recent evaluation of an indicated problem. |
| 111537 | Family Member with Risk Factor | A patient's biological relative who exhibits a health factor that may indicate an increase in the patient's chances of developing a particular disease or medical problem. |
| 111538 | Age at Occurrence | The age at which an individual experienced a specific event, such as breast cancer. |
| 111539 | Menopausal phase | The current stage of an individual in her gynecological development. |
| 111540 | Side of Family | An indicator of paternal or maternal relationship. |
| 111541 | Maternal | Relating to biological female parentage. |
| 111542 | Unspecified gynecological hormone | A gynecological hormone for which the specific type is not specified. E.g., contraceptive, estrogen, Tamoxifen. |
| 111543 | Breast feeding history | An indicator of whether or not a patient ever provided breast milk to her offspring. |
| 111544 | Average breast feeding period | The average length of time that a patient provided breast milk to her offspring. |
| 111545 | Substance Use History | Information regarding usage by the patient of certain legal or illicit substances. |
| 111546 | Used Substance Type | A classification of a substance, such as alcohol or a legal or illicit drug. |
| 111547 | Environmental Exposure History | Information regarding exposure of the patient to potentially harmful environmental factors. |
| 111548 | Environmental Factor | A classification of a potentially harmful substance or gas in a subject's environment, such as asbestos, lead, or carcinogens. |
| 111549 | Previous Reports | Previous Structured Reports that could have relevant information for a current imaging service request. |
| 111550 | Personal breast cancer history | An indication that a patient has had a previous malignancy of the breast. |
| 111551 | History of endometrial cancer | Indicates a previous occurrence of cancer of the lining of the uterus. |
| 111552 | History of ovarian cancer | Indicates a previous occurrence of cancer of the lining of the ovary. |
| 111553 | History of high risk lesion on previous biopsy | Indicates a prior diagnosis of pre-cancerous cells or tissue removed for pathologic evaluation. |
| 111554 | Post menopausal patient | A female patient whose menstrual periods have ceased. |
| 111555 | Late child bearing (after 30) | A female patient whose first child was born after the patient was 30 years old. |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 111556 | BRCA1 breast cancer gene | The first level genetic marker indicating risk for breast cancer. |
| 111557 | BRCA2 breast cancer gene | The second level genetic marker indicating risk for breast cancer. |
| 111558 | BRCA3 breast cancer gene | The third level genetic marker indicating risk for breast cancer. |
| 111559 | Weak family history of breast cancer | A patient's biological aunt, grandmother, or female cousin was diagnosed with breast cancer. Definition from BI-RADS®. |
| 111560 | Intermediate family history of breast cancer | A patient's biological mother or sister was diagnosed with breast cancer after they had gone through menopause. Definition from BI-RADS®. |
| 111561 | Very strong family history of breast cancer | A patient's biological mother or sister was diagnosed with breast cancer before they had gone through menopause, or more than one of the patient's first-degree relatives (biological mother or sister) were diagnosed with breast cancer after they had gone through menopause. Definition from BI-RADS®. |
| 111562 | Family history of prostate cancer | Previous diagnosis of a malignancy of the prostate gland in a biological relative. |
| 111563 | Family history unknown | The health record of a patient's biological relatives is not known. |
| 111564 | Nipple discharge cytology | The study of cells obtained from fluid emitted from the breast. |
| 111565 | Uterine malformations | A developmental abnormality resulting in an abnormal shape of the uterus. |
| 111566 | Spontaneous Abortion | A naturally occurring premature expulsion from the uterus of the products of conception - the embryo or a nonviable fetus. |
| 111567 | Gynecologic condition | An ailment/abnormality or state of the female reproductive tract. |
| 111568 | Gynecologic surgery | A surgical operation performed on any portion of the female reproductive tract. |
| 111569 | Previous LBW or IUGR birth | Prior pregnancy with a low birth weight baby or a fetus with Intrauterine Growth Restriction or Retardation. |
| 111570 | Previous fetal malformation/syndrome | History of at least one prior pregnancy with fetal anatomic abnormality(s). |
| 111571 | Previous RH negative or blood dyscrasia at birth | History of delivering a Rhesis Isoimmunization affected child(ren) or a child(ren) with another blood disorder. |
| 111572 | History of multiple fetuses | History of at least one pregnancy that contained more than one fetus. E.g., twins, triplets, etc.. |
| 111573 | Current pregnancy, known or suspected malformations/syndromes | At least one fetus of this pregnancy has an anatomic abnormality(s) that is known to exist, or a "marker" is present that suggests the abnormality(s) may be present. |
| 111574 | Family history, fetal malformation/syndrome | Biological relatives have previously conceived a fetus with an anatomic abnormality(s). |
| 111575 | High | A subjective descriptor for an elevated amount of exposure, use, or dosage, incurring high risk of adverse effects. |
| 111576 | Medium | A subjective descriptor for a moderate amount of exposure, use, or dosage, incurring medium risk of adverse effects. |
| 111577 | Low | A subjective descriptor for a limited amount of exposure, use, or dosage, incurring low risk of adverse effects. |
| 111578 | Dose frequency | A measurement of the rate of occurrence of which a patient takes a certain medication. |
| 111579 | Rate of exposure | The quantity per unit of time that a patient was or is being exposed to an environmental irritant. |
| 111580 | Volume of use | The quantity per unit of time that a medication or substance was or is being used. |
| 111581 | Relative dose amount | A qualitative descriptor for the amount of a medication that was or is being taken. |
| 111582 | Relative amount of exposure | A qualitative descriptor for the amount of present or past exposure to an environmental irritant. |
| 111583 | Relative amount of use | A qualitative descriptor for the amount of a medication or substance that was or is being used. |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 111584 | Relative dose frequency | A qualitative descriptor for the frequency with which a medication was or is being taken. |
| 111585 | Relative frequency of exposure | A qualitative descriptor for the frequency of present or past exposure to an environmental irritant. |
| 111586 | Relative frequency of use | A qualitative descriptor for the frequency with which a medication or substance was or is being used. |
| 111587 | No known exposure | Patient is not known to have been exposed to or used the substance or medication. |
| 111590 | Recall for technical reasons | Patient returns for additional images to improve the quality of the most recent exam. |
| 111591 | Recall for imaging findings | Patient returns for additional images to clarify findings from the most recent exam. |
| 111592 | Recall for patient symptoms/ clinical findings | Patient returns for additional images to clarify symptoms or signs reported by the patient or a healthcare professional at the time of the most recent exam. |
| 111593 | LBW or IUGR | Number of births with low birth weight or intrauterine growth restriction. |
| 111601 | <i>Green filter</i> | <i>Filter that transmits green light while blocking the other colors, typically centered at 510-540 nm</i> |
| 111602 | <i>Red filter</i> | <i>Filter that transmits red light while blocking the other colors, typically centered at 630-680 nm</i> |
| 111603 | <i>Blue filter</i> | <i>Filter that transmits blue while blocking the other colors, typically centered at 460-480 nm</i> |
| 111604 | <i>Yellow-green filter</i> | <i>A filter of 560nm that is used for retinal imaging and can provide good contrast and good visibility of the retinal vasculature</i> |
| 111605 | <i>Blue-green filter</i> | <i>A filter of 490nm that is used for retinal imaging because of excessive scattering of some retinal structures at very short wavelengths</i> |
| 111606 | <i>Infrared filter</i> | <i>Filter that transmits the infrared spectrum, which is light that lies outside of the visible spectrum, with wavelengths longer than those of red light, while blocking visible light</i> |
| 111607 | <i>Polarizing filter</i> | <i>A filter that reduces reflections from non-metallic surfaces such as glass or water by blocking light waves that are vibrating at selected angles to the filter.</i> |
| 111609 | No filter | No filter used. |
| 111621 | Field 1 for Joslin 3 field | Joslin NM-1 is a 45 degree field focused centrally between the temporal margin of optic disc and the center of the macula: Center the camera on the papillomacular bundle midway between the temporal margin of the optic disc and the center of the macula. The horizontal centerline of the image should pass directly through the center of the disc. |
| 111622 | Field 2 for Joslin 3 field | Joslin NM-2 is a 45 degree field focused superior temporal to the optic disc: Center the camera laterally approximately one-half disc diameter temporal to the center of the macula. The lower edge of the field is tangent to a horizontal line passing through the upper edge of the optic disc. The image is taken temporal to the macula but includes more retinal nasal and superior to the macula than standard field 2. |
| 111623 | Field 3 for Joslin 3 field | Joslin NM-3 is a 45 degree field focused nasal to the optic disc: This field is nasal to the optic disc and may include part of the optic disc. The horizontal centerline of the image should pass tangent to the lower edge of the optic disc. |
| 111625 | Diffuse direct illumination | A broad or "soft" light supplied from a single source. |

| Code Value | Code Meaning | Definition |
|------------|------------------------------------|--|
| 111626 | Scheimpflug Camera | A slit reflected light microscope, which has the ability to form an image of the back scattered light from the eye in a sagittal plane. Scheimpflug cameras are able to achieve a wide depth of focus by employing the "Scheimpflug principle" where the lens and image planes are not parallel with each other. Rotating Scheimpflug cameras are able to generate three-dimensional images and calculate measurements of the anterior chamber of the eye. |
| 111627 | Scotopic light | Lighting condition approximately 0.04 lux. |
| 111628 | Mesopic light | Lighting condition approximately 4 lux. |
| 111629 | Photopic light | Lighting condition approximately 40 lux. |
| 111630 | Dynamic light | Acquisition preceded by intense light. |
| 111631 | Average Glandular Dose | Calculated from values of entrance exposure in air, the X-Ray beam quality (half-value layer), and compressed breast thickness, is the energy deposited per unit mass of glandular tissue averaged over all the glandular tissue in the breast. |
| 111632 | Anode Target Material | The primary material in the anode of an X-Ray source. |
| 111633 | Compression Thickness | The average thickness of the body part examined when compressed, if compression has been applied during X-Ray exposure. |
| 111634 | Half Value Layer | Thickness of Aluminum required to reduce the X-Ray output at the patient entrance surface by a factor of two. |
| 111635 | X-Ray Grid | An anti-scatter device based on radiation absorbing strips above the detector. E.g., in the patient support. |
| 111636 | Entrance Exposure at RP | Exposure measurement in air at the reference point that does not include back scatter, according to MQCM 1999. |
| 111637 | Accumulated Average Glandular Dose | Average Glandular Dose to a single breast accumulated over multiple images. |
| 111638 | Patient Equivalent Thickness | Value of the control variable used to parametrize the Automatic Exposure Control (AEC) closed loop. E.g., "Water Value". |
| 111641 | Fixed grid | An X-Ray Grid that does not move during exposure. |
| 111642 | Focused grid | An X-Ray Grid with radiation absorbing strips that are focused toward the focal spot, to eliminate grid cutoff. |
| 111643 | Reciprocating grid | An X-Ray Grid that is designed to move during exposure, to eliminate the appearance of grid lines on the image. |
| 111644 | Parallel grid | An X-Ray Grid with radiation absorbing strips that are parallel to each other and that is used only with long source to image distances. |
| 111645 | Crossed grid | An X-Ray Grid with crossed radiation absorbing strips used for more complete cleanup of scatter radiation. |
| 111646 | No grid | No X-Ray Grid was used due to low scatter conditions. |
| 111671 | Spectacle Prescription Report | The spectacle prescription for a patient. |
| 111672 | Add Near | Refractive measurements of the eye to correct for inability to focus at near while wearing the distance prescription. |
| 111673 | Add Intermediate | Refractive measurements of the eye to correct for inability to focus at intermediate distance while wearing the distance prescription. |
| 111674 | Add Other | Refractive measurements of the eye to correct for inability to focus at the specified distance while wearing the distance prescription. |
| 111675 | Horizontal Prism Power | The power of a prism to bend light in the horizontal direction, in prism diopters. |
| 111676 | Horizontal Prism Base | Direction of the base of a horizontal prism -- either in (toward the nose), or out (away from the nose). |
| 111677 | Vertical Prism Power | The power of a prism to bend light in the vertical direction, in prism diopters. |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 111678 | Vertical Prism Base | Direction of the base of a vertical prism -- either up, or down. |
| 111679 | Distance Pupillary Distance | Distance in mm between the pupils when the patient's object of regard is in the distance. |
| 111680 | Near Pupillary Distance | Distance in mm between the pupils when the patient's object of regard is at near. |
| 111685 | Autorefractive Visual Acuity | A patient's vision with the correction measured by an autorefractor in place. |
| 111686 | Habitual Visual Acuity | A patient's vision with whichever vision correction the patient customarily wears. |
| 111687 | Prescription Visual Acuity | A patient's vision with the final spectacle prescription in place. |
| 111688 | Right Eye Rx | The spectacle prescription for the right eye. |
| 111689 | Left Eye Rx | The spectacle prescription for the left eye. |
| 111690 | Macular Grid Thickness and Volume Report | A macular grid thickness and volume report for a patient. The macular grid is an analytic tool described in PS3.1. |
| 111691 | Number of Images Used for Macular Measurements | Number of images used for the macular grid measurement. |
| 111692 | Number of Samples Used per Image | Number of samples used per Image for analysis. |
| 111693 | Analysis Quality Rating | A numeric rating of the quality of the entire analysis with respect to grading and diagnostic purposes. Higher numbers indicate greater quality. |
| 111694 | Image Set Quality Rating | A numeric rating of the quality of an entire image set with respect to grading and diagnostic purposes. Higher numbers indicate greater quality. |
| 111695 | Interfering Tears or Drops | Tear film or drops affecting test quality. |
| 111696 | Visual Fixation Quality During Acquisition | The assessment of the centricity and persistence of the visual fixation (direction of gaze) during the acquisition. |
| 111697 | Visual Fixation Quality Problem | The reason why the patient's visual fixation was not steady or was indeterminate. |
| 111698 | Ophthalmic Macular Grid Problem | The reason why the macular grid measurements may be questionable. |
| 111700 | Specimen Container Identifier | Identifier of container (box, block, microscope slide, etc.) for the specimen under observation. |
| 111701 | Processing type | Type of processing that tissue specimen underwent. |
| 111702 | DateTime of processing | Date and time of processing step. |
| 111703 | Processing step description | Description of the individual step in the tissue processing sequence. |
| 111704 | Sampling Method | Method of sampling used to derive specimen from its parent. |
| 111705 | Parent Specimen Identifier | Identifier of the parent specimen that gave rise to the current specimen. |
| 111706 | Issuer of Parent Specimen Identifier | Assigning authority for parent specimen's identifier. |
| 111707 | Parent specimen type | Parent specimen type that gave rise to current specimen. |
| 111708 | Position Frame of Reference | Description of coordinate system and origin reference point on parent specimen, or parent specimen container, or image used for localizing the sampling site or location within container or image. |
| 111709 | Location of sampling site | Reference to image of parent specimen localizing the sampling site; may include referenced Presentation State object. |
| 111710 | Location of sampling site X offset | Location of sampling site of specimen (nominal center) relative to the Position Frame of Reference. |
| 111711 | Location of sampling site Y offset | Location of sampling site of specimen (nominal center) relative to the Position Frame of Reference. |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 111712 | Location of sampling site Z offset | Location of sampling site of specimen (nominal center) relative to the Position Frame of Reference. |
| 111718 | Location of Specimen | Description of specimen location, either in absolute terms or relative to the Position Frame of Reference. |
| 111719 | Location of Specimen X offset | Location of specimen (nominal center) relative to the Position Frame of Reference in the X dimension. |
| 111720 | Location of Specimen Y offset | Location of specimen (nominal center) relative to the Position Frame of Reference in the Y dimension. |
| 111721 | Location of Specimen Z offset | Location of specimen (nominal center) relative to the Position Frame of Reference in the Z dimension. |
| 111723 | Visual Marking of Specimen | Description of visual distinguishing identifiers. E.g., ink, or a particular shape of the specimen. |
| 111724 | Issuer of Specimen Identifier | Assigning authority for specimen identifier. |
| 111726 | Dissection with entire specimen submission | Dissection of specimen with submission of all its sections for further processing or examination. |
| 111727 | Dissection with representative sections submission | Dissection of specimen with submission of representative sections for further processing or examination. |
| 111729 | Specimen storage | A workflow step, during which tissue specimens are stored in a climate-controlled environment. |
| 111741 | Transmission illumination | Transmission illumination method for specimen microscopy. |
| 111742 | Reflection illumination | Reflection illumination method for specimen microscopy. |
| 111743 | Epifluorescence illumination | Epifluorescence illumination method for specimen microscopy. |
| 111744 | Brightfield illumination | Brightfield illumination method for specimen microscopy. |
| 111745 | Darkfield illumination | Darkfield illumination method for specimen microscopy. |
| 111746 | Oblique illumination | Oblique illumination method for specimen microscopy. |
| 111747 | Phase contrast illumination | Phase contrast illumination method for specimen microscopy. |
| 111748 | Differential interference contrast | Differential interference contrast method for specimen microscopy. |
| 111749 | Total internal reflection fluorescence | Total internal reflection fluorescence method for specimen microscopy. |
| 111750 | Ultrasound Contact | A method of obtaining ophthalmic axial measurements that uses ultrasound, and that requires applanation of the cornea. |
| 111751 | Ultrasound Immersion | A method of obtaining ophthalmic axial measurements that uses ultrasound, and that requires immersion of the patient's eye in fluid as he lies in a supine position. |
| 111752 | Optical | A method of obtaining ophthalmic axial measurements that uses light. |
| 111753 | Manual Keratometry | Measurements taken of the corneal curvature using a manual keratometer. |
| 111754 | Auto Keratometry | Measurements taken of the corneal curvature using an automated keratometer. |
| 111755 | Simulated Keratometry | Simulated Keratometry measurements derived from corneal topography. |
| 111756 | Equivalent K-reading | Corneal power measurements using Scheimpflug camera. |
| 111760 | Haigis | The Haigis IOL calculation formula. Haigis W, Lege B, Miller N, Schneider B. Comparison of immersion ultrasound biometry and partial coherence interferometry for intraocular lens calculation according to Haigis. Graefes Arch Clin Exp Ophthalmol 2000;238:765-73. |
| 111761 | Haigis-L | The Haigis-L IOL calculation formula. Haigis W. Intraocular lens calculation after refractive surgery for myopia: Haigis-L formula. J Cataract Refract Surg. 2008 Oct;34(10):1658-63. |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 111762 | Holladay 1 | The Holladay 1 IOL calculation formula. Holladay JT, Prager TC, Chandler TY, Musgrove KH, Lewis JW, Ruiz RS. A three-part system for refining intraocular lens power calculations. J Cataract Refract Surg. 1988; 14:17-24. |
| 111763 | Holladay 2 | The Holladay 2 IOL calculation formula. |
| 111764 | Hoffer Q | The Hoffer Q IOL calculation formula. Hoffer KJ. The Hoffer Q formula: a comparison of theoretic and regression formulas. J Cataract Refract Surg 1993;19:700-12. Errata. J Cataract Refract Surg 1994;20:677 and 2007;33:2-3. |
| 111765 | Olsen | The Olsen IOL calculation formula. Olsen T. Calculation of intraocular lens power: a review. Acta Ophthalmol. Scand. 2007; 85: 472-485. |
| 111766 | SRKII | The SRKII IOL calculation formula. Sanders DR, Retzlaff J, Kraff MC. Comparison of the SRK II formula and other second generation formulas. J Cataract Refract Surg. 1988 Mar;14(2):136-41. |
| 111767 | SRK-T | The SRK-T IOL calculation formula. Retzlaff JA, Sanders DR, Kraff MC. Development of the SRK/T intraocular lens implant power calculation formula. J Cataract Refract Surg 1990;16:333-40. Erratum 1990;16:528. |
| 111768 | ACD Constant | The "ACD Constant" used in IOL calculation. |
| 111769 | Haigis a0 | The "Haigis a0" constant used in IOL calculation. |
| 111770 | Haigis a1 | The "Haigis a1" constant used in IOL calculation. |
| 111771 | Haigis a2 | The "Haigis a2" constant used in IOL calculation. |
| 111772 | Hoffer pACD Constant | The "Hoffer pACD Constant" used in IOL calculation. |
| 111773 | Surgeon Factor | The "Surgeon Factor" constant used in IOL calculation. |
| 111776 | Front Of Cornea To Front Of Lens | Anterior chamber depth defined as the front of the cornea to the front of the lens. |
| 111777 | Back Of Cornea To Front Of Lens | Anterior chamber depth defined as the back of the cornea to the front of the lens. |
| 111778 | Single or Anterior Lens | Refers to the anterior lens when there are two lenses in the eye. The distance, in mm, from the anterior surface of the lens to the posterior surface of the lens. |
| 111779 | Posterior Lens | Refers to the posterior lens when there are two lenses in the eye. The distance, in mm, from the anterior surface of the lens to the posterior surface of the lens. |
| 111780 | Measurement From This Device | Value obtained from measurements taken by the device creating this SOP Instance. |
| 111781 | External Data Source | Value obtained by data transfer from an external source - not from measurements taken by the device providing the value. |
| 111782 | Axial Measurements SOP Instance | Axial Measurements DICOM SOP Instance. |
| 111783 | Refractive Measurements SOP Instance | Refractive Measurements DICOM SOP Instance. |
| 111786 | Standard Deviation of measurements used | Standard Deviation is a simple measure of the variability of a data set. |
| 111787 | Signal to Noise Ratio | Signal to Noise Ratio of the data samples taken to create a measurement. |
| 111791 | Spherical projection | Projection from 2D image pixels to 3D Cartesian coordinates based on a spherical mathematical model. |
| 111792 | Surface contour mapping | Mapping from 2D image pixels to 3D Cartesian coordinates based on measurements of the retinal surface. E.g., of the retina, derived via a measurement technology such as Optical Coherence Tomography, Ultrasound etc. |
| 111800 | Visual Field 24-2 Test Pattern | Test pattern, nominally covering an area within 24° of fixation. Consists of 54 test points a minimum of 3° from each meridian and placed 6° apart. The "-2" distinguishes this from another 24° pattern (no longer supported). |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 111801 | Visual Field 10-2 Test Pattern | Test pattern, nominally covering an area within 10° of fixation. Consists of 68 test points a minimum of 1° from each meridian and placed 2° apart. The "-2" in this case indicates its point layout to be similar to the 30-2 and 24-2. |
| 111802 | Visual Field 30-2 Test Pattern | Test pattern consisting of test point locations within 30° of fixation. Consists of 76 test points a minimum of 3° from each meridian and placed 6° apart. The "-2" distinguishes this from another 30° pattern (no longer supported). |
| 111803 | Visual Field 60-4 Test Pattern | Test pattern consisting of 60 test point locations between 30° and 60° of fixation a minimum of 6° from each meridian and placed 12° apart. The "-4" distinguishes this from a similar 60° pattern having 4 additional points. |
| 111804 | Visual Field Macula Test Pattern | Test pattern consisting of 16 test point locations within 10° of fixation a minimum of 1° from each meridian and placed 2° apart. |
| 111805 | Visual Field Central 40 Point Test Pattern | Test pattern consisting of 40 test point locations within 30° of fixation that spread out radially from fixation. |
| 111806 | Visual Field Central 76 Point Test Pattern | Test pattern consisting of 76 test point locations within 30° of fixation a minimum of 3° from each meridian and placed 6° apart. |
| 111807 | Visual Field Peripheral 60 Point Test Pattern | Test pattern consisting of 60 test point locations between 30° and 60° of fixation a minimum of 6° from each meridian and placed 12° apart. |
| 111808 | Visual Field Full Field 81 Point Test Pattern | Test pattern consisting of 81 test point locations within 60° of fixation that spread out radially from fixation. |
| 111809 | Visual Field Full Field 120 Point Test Pattern | Test pattern consisting of 120 test point locations within 60° of fixation that spread out radially from fixation, concentrated in the nasal hemisphere. |
| 111810 | Visual Field G Test Pattern | Test pattern for Glaucoma and general visual field assessment with 59 test locations of which 16 test locations are in the macular area (up to 10° eccentricity) and where the density of test location is reduced with eccentricity. The test can be extended with the inclusion of 14 test locations between 30° and 60° eccentricity, 6 of which are located at the nasal step. |
| 111811 | Visual Field M Test Pattern | Test pattern for the macular area. Orthogonal test pattern with 0.7° spacing within the central 4° of eccentricity and reduced density of test locations between 4 and 10, 5° of eccentricity. 81 test locations over all. The test can be extended to include the test locations of the Visual Field G Test Pattern between 10, 5° and 60°. |
| 111812 | Visual Field 07 Test Pattern | Full field test pattern with 48 test locations from 0-30° and 82 test locations from 30-70°. Reduced test point density with increased eccentricity. Can be combined with screening and threshold strategies. |
| 111813 | Visual Field LVC Test Pattern | Low Vision Central. Orthogonal off-center test pattern with 6° spacing. 75 test locations within the central 30°. Corresponds with the 32/30-2 excluding the 2 locations at the blind spot, including a macular test location. The LVC is linked with a staircase threshold strategy starting at 0 dB intensity and applies stimulus area V. |
| 111814 | Visual Field Central Test Pattern | General test corresponding to the 30-2 but excluding the 2 test locations in the blind spot area, hence with 74 instead of 76 test locations. |
| 111815 | Visual Field SITA-Standard Test Strategy | Swedish Interactive Thresholding Algorithm (SITA). Strategy gains testing efficiency through use of visual field and information theory models. In: Bengtsson B, Olsson J, Heijl A, Rootzen H. A new generation of algorithms for computerized threshold perimetry, SITA. Acta Ophthalmologica Scandinavica, 1997, 75: 368-375. |
| 111816 | Visual Field SITA-SWAP Test Strategy | Adaptation of SITA testing methods to Blue-Yellow testing. |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 111817 | Visual Field SITA-Fast Test Strategy | <p>Similar to SITA-Standard but with less strict criteria for closing test points. Intended for patients who must be tested in the shortest possible time.</p> <p>In: Bengtsson B, Hejl A. SITA Fast, a new rapid perimetric threshold test. Description of methods and evaluation in patients with manifest and suspect glaucoma. Acta Ophthalmologica Scandinavica, 1998, 76: 431-437.</p> |
| 111818 | Visual Field Full Threshold Test Strategy | <p>Threshold test algorithm that determines a patient's sensitivity at each test point in the threshold test pattern by adjusting intensity by 4 dB steps until the patient changes their response, and then adjusts the intensity in the opposite direction by 2 dB steps until the patient changes their response again. The last stimulus seen by the patient is recognized as the threshold for that point.</p> <p>The starting values are determined by first thresholding a "primary" point in each quadrant then using the results of each primary point to determine the starting values for neighboring points.</p> |
| 111819 | Visual Field FastPac Test Strategy | <p>Similar to the Full Threshold algorithm except that it steps by 3 dB and only crosses the threshold only once.</p> <p>In: Flanagan JG, Wild JM, Trope GE. Evaluation of FASTPAC, a new strategy for threshold estimation with the Humphrey Field Analyzer, in a glaucomatous population. Ophthalmology, 1993, 100: 949-954.</p> |
| 111820 | Visual Field Full From Prior Test Strategy | Identical to Full Threshold except that starting values are determined by the results of a previous test performed using the same test pattern and the Full Threshold test strategy. |
| 111821 | Visual Field Optima Test Strategy | Similar to FastPac except that the steps are pseudo-dynamic (differ based on the intensity of the last presentation). |
| 111822 | Visual Field Two-Zone Test Strategy | Suprathreshold testing strategy, in which each point is initially tested using stimulus that is 6 dB brighter than the expected hill of vision. If the patient does not respond, the stimulus is presented a second time at the same brightness. If the patient sees either presentation, the point is marked as "seen"; otherwise it is marked as "not seen". |
| 111823 | Visual Field Three-Zone Test Strategy | An extension of the two-zone strategy in which test points where the second stimulus is not seen are presented with a third stimulus at maximum brightness. |
| 111824 | Visual Field Quantify-Defects Test Strategy | An extension of the two-zone strategy, in which test points where the second stimulus is not seen receive threshold testing to quantify the depth of any detected scotomas. |
| 111825 | Visual Field TOP Test Strategy | <p>Tendency Oriented Perimetry. Fast thresholding algorithm. Test strategy makes use of the interaction between neighboring test locations to reduce the test time compared to normal full threshold strategy by 60-80%.</p> <p>In: Morales J, Weitzman ML, Gonzalez de la Rosa M. Comparison between Tendency-Oriented Perimetry (TOP) and octopus threshold perimetry. Ophthalmology, 2000, 107: 134-142.</p> |
| 111826 | Visual Field Dynamic Test Strategy | Dynamic strategy is a fast thresholding strategy reducing test duration by adapting the dB step sizes according to the frequency-of-seeing curve of the threshold. Reduction of test time compared to normal full threshold strategy 30-50%. |
| 111827 | Visual Field Normal Test Strategy | Traditional full threshold staircase strategy. Initial intensities are presented, based on anchor point sensitivities in each quadrant and based on already known neighboring sensitivities. In a first run, thresholds are changed in 4dB steps until the first response reversal. Then the threshold is changed in 2 dB steps until the second response reversal. The threshold is calculated as the average between the last seen and last not-seen stimulus, supposed to correspond with the 50% point in the frequency-of-seeing curve. |
| 111828 | Visual Field 1-LT Test Strategy | One level screening test: Each test location is tested with a single intensity. The result is shown as seen or not-seen. The intensity can either be a 0 dB stimulus or a predefined intensity. |
| 111829 | Visual Field 2-LT Test Strategy | Two level screening test: Each test location is initially tested 6 dB brighter than the age corrected normal value. |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 111830 | Visual Field LVS Test Strategy | Low Vision Strategy is a full threshold normal strategy with the exception that it starts at 0 dB intensity and applies stimulus area V. |
| 111831 | Visual Field GATE Test Strategy | German Adaptive Threshold Estimation is a fast strategy based on a modified 4-2 staircase algorithm, using prior visual fields to calculate the starting intensity. In: Chieffer U, Pascual JP, Edmunds B, Feudner E, Hoffmann EM, Johnson CA, Lagreze WA, Pfeiffer N, Sample PA, Staubach F, Weleber RG, Vonthein R, Krapp E, Paetzold J. Comparison of the new perimetric GATE strategy with conventional full-threshold and SITA standard strategies. Investigative Ophthalmology and Visual Science, 2009, 51: 488-494. |
| 111832 | Visual Field GATEi Test Strategy | Similar to GATE. The i stands for initial. If there was no prior visual field test to calculate the starting values, an anchor point method is used to define the local start values. |
| 111833 | Visual Field 2LT-Dynamic Test Strategy | A test started as two level screening test. In the course of the test, the threshold of relative defects and/or normal test locations has been quantified using the dynamic threshold strategy. |
| 111834 | Visual Field 2LT-Normal Test Strategy | A test started as two level screening test. In the course of the test, the threshold of relative defects and/or normal test locations has been quantified using the normal full threshold strategy. |
| 111835 | Visual Field Fast Threshold Test Strategy | Takes neighborhood test point results into account and offers stimuli with an adapted value to save time. |
| 111836 | Visual Field CLIP Test Strategy | Continuous Luminance Incremental Perimetry, which measures at first the individual reaction time of the patient and threshold values in every quadrant. The starting value for the main test is slightly below in individual threshold. |
| 111837 | Visual Field CLASS Strategy | A supra threshold screening strategy. The starting stimuli intensities depend on the classification of the patient's visual field by measuring the central (fovea) or peripheral (15° meridian) threshold. The result of each dot slightly underestimates the sensitivity value (within 5 dB). |
| 111838 | Age corrected | Mode for determining the starting luminance for screening test points - the starting luminance is chosen based on the age of the patient. |
| 111839 | Threshold related | Mode for determining the starting luminance for screening test points - the starting luminance is chosen based on the results of thresholding a set of "primary" test points (one in each quadrant). |
| 111840 | Single luminance | Mode for determining the starting luminance for screening test points - in this case, all starting luminance is set to the same value. |
| 111841 | Foveal sensitivity related | Mode for determining the starting luminance for screening test points - the starting luminance is chosen based on the result of the foveal threshold value. |
| 111842 | Related to non macular sensitivity | Mode for determining the starting luminance for screening test points - the starting luminance is chosen based on the result of four threshold values measured near the 15° meridian (one in each quadrant). |
| 111843 | Automated Optical | Real time evaluation of the camera image to recognize blinks and fixation losses with influence on the test procedure. Blinks that interfere with stimuli presentation cause the automated repetition of such stimulus presentations. Fixation losses can be used to delay the stimulus presentation until correct fixation is regained. |
| 111844 | Blind Spot Monitoring | A method of monitoring the patient's fixation by periodically presenting stimulus in a location on the background surface that corresponds to the patient's blind spot. |
| 111845 | Macular Fixation Testing | A method of monitoring the patient's fixation by presenting the stimulus to the patient's macula. |
| 111846 | Observation by Examiner | A method of monitoring the patient's fixation by observation from the examiner of the patient. |
| 111847 | Outside normal limits | Analysis Results are outside normal limits. |
| 111848 | Borderline | Analysis Results are borderline. |
| 111849 | Abnormally high sensitivity | Analysis Results identify abnormally high sensitivity. |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 111850 | General reduction in sensitivity | Analysis Results identify general reduction in sensitivity. |
| 111851 | Borderline and general reduction in sensitivity | Analysis Results identify Borderline and general reduction in sensitivity. |
| 111852 | Visual Field Index | Index of a patient's remaining visual field normalized for both age and generalized defect |
| 111853 | Visual Field Loss Due to Diffuse Defect | Estimate of the portion of a patient's visual field loss that is diffuse (i.e., spread evenly across all portions of the visual field). |
| 111854 | Visual Field Loss Due to Local Defect | Estimate of the portion of a patient's visual field loss that is local (i.e., not spread evenly across all portions of the visual field). |
| 111855 | Glaucoma Hemifield Test Analysis | An analysis of asymmetry between zones of the superior and inferior visual field. It is designed to be specific for defects due to glaucoma. |
| 111856 | Optical Fixation Measurements | The data output of an optical fixation monitoring process, consisting of a list of positive and negative numbers indicating the quality of patient fixation over the course of a visual field test. The value 0 represents the initial fixation. Negative numbers indicate a measuring error (i.e., the patient blinked). Positive numbers quantify the degree of eccentricity from initial fixation. |
| 111900 | Macula centered | An image of at least 15° angular subtend that is centered on the macula; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111901 | Disc centered | An image of at least 15° angular subtend that is centered on the optic disc; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111902 | Lesion centered | An image of any angular subtend that is centered on a lesion located in any region of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111903 | Disc-macula centered | An image of at least 15° angular subtend centered midway between the disc and macula and containing at least a portion of the disc and both the disc and the macula; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111904 | Mid-peripheral-superior | An image of at least 15° angular subtend positioned between the central zone and the equator, and spanning both the superior-temporal and superior-nasal quadrants of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111905 | Mid-peripheral-superior temporal | An image of at least 15° angular subtend positioned between the central zone and the equator in the superior-temporal quadrant of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111906 | Mid-peripheral-temporal | An image of at least 15° angular subtend positioned between the central zone and the equator, and spanning both the superior-temporal and inferior-temporal quadrants of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111907 | Mid-peripheral-inferior temporal | An image of at least 15° angular subtend positioned between the central zone and the equator in the inferior-temporal quadrant of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111908 | Mid-peripheral-inferior | An image of at least 15° angular subtend positioned between the central zone and the equator, and spanning both the inferior-temporal and inferior-nasal quadrants of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111909 | Mid-peripheral-inferior nasal | An image of at least 15° angular subtend positioned between the central zone and the equator in the inferior-nasal quadrant of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111910 | Mid-peripheral-nasal | An image of at least 15° angular subtend positioned between the central zone and the equator, and spanning both the superior-nasal and inferior-nasal quadrants of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111911 | Mid-peripheral-superior nasal | An image of at least 15° angular subtend positioned between the central zone and the equator in the superior-nasal quadrant of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 111912 | Peripheral-superior | An image of at least 15° angular subtend positioned between the equator and the ora serrata, and spanning both the superior temporal and superior nasal quadrants of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111913 | Peripheral-superior temporal | An image of at least 15° angular subtend positioned between the equator and ora serrata in the superior-temporal quadrant of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111914 | Peripheral-temporal | An image of at least 15° angular subtend positioned between the equator and ora serrata, and spanning both the superior-temporal and inferior-temporal quadrants of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111915 | Peripheral-inferior temporal | An image of at least 15° angular subtend positioned between the equator and ora serrata in the inferior-temporal quadrant of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111916 | Peripheral-inferior | An image of at least 15° angular subtend positioned between the equator and ora serrata, and spanning both the inferior-temporal and inferior-nasal quadrants of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111917 | Peripheral-inferior nasal | An image of at least 15° angular subtend positioned between the equator and ora serrata in the inferior-nasal quadrant of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111918 | Peripheral-nasal | An image of at least 15° angular subtend positioned between the equator and ora serrata, and spanning both the superior-nasal and inferior-nasal quadrants of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111919 | Peripheral-superior nasal | An image of at least 15° angular subtend positioned between the equator and ora serrata in the superior-nasal quadrant of the fundus; see Section U.1.8 "Relative Image Position Definitions" in PS3.17. |
| 111920 | Time domain | Identifies the use of physical signals with respect to time to capture information. |
| 111921 | Spectral domain | Identifies the use of physical signals with respect to multiple frequencies to capture information. |
| 111922 | No corneal compensation | No compensation algorithm for corneal birefringence. |
| 111923 | Corneal birefringence compensation | Algorithm to compensate for variability in corneal birefringence. |
| 111924 | Retinal topography | Measurement of the retinal surface contour relative to an assigned datum plane. |
| 111925 | Retinal nerve fiber layer thickness | Measurement approximating the distance related to the structure between the internal limiting membrane (ILM) and the outer boarder of the retinal nerve fiber layer (RNFL); see Section III.6 "Retinal Thickness Definition" in PS3.17. |
| 111926 | Ganglion cell complex thickness | Measurement approximating the distance related to the structure between the ILM and the outer border of the inner plexiform layer (IPL), called the ganglion cell complex (GCC); see Section III.6 "Retinal Thickness Definition" in PS3.17. |
| 111927 | Total retinal thickness (ILM to IS-OS) | Measurement approximating the distance related to the structure between the ILM and the inner-outer segment junction (IS-OS); see Section III.6 "Retinal Thickness Definition" in PS3.17. |
| 111928 | Total retinal thickness (ILM to RPE) | Measurement approximating the distance related to the structure between the ILM and the retinal pigment epithelium (RPE); see Section III.6 "Retinal Thickness Definition" in PS3.17. |
| 111929 | Total retinal thickness (ILM to BM) | Measurement approximating the distance related to the structure between the ILM and the Bruch's membrane (BM); see Section III.6 "Retinal Thickness Definition" in PS3.17. |
| 111930 | Absolute ophthalmic thickness | Thickness of a component of the posterior segment of the eye. E.g., thickness of retina, choroid, etc. |
| 111931 | Thickness deviation category from normative data | Ophthalmic Thickness map based upon statistical significance category (such as percentile) from a normative data set. |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 111932 | Thickness deviation from normative data | Ophthalmic Thickness map based upon deviation (such as microns) from a normative data set. |
| 111933 | Related ophthalmic thickness map | Ophthalmic Thickness Map related to another Ophthalmic Thickness Map or another SOP Instance. |
| 111934 | Disc-Fovea | An anatomic point centered midway between the disc and fovea centralis. |
| 111935 | p>5% | Assuming the null hypothesis is true, the conditional percent probability of observing this result is not statistically significant. |
| 111936 | p<5% | Assuming the null hypothesis is true, the conditional percent probability of observing this result is statistically significant, 95% unlikely to happen by chance. |
| 111937 | p<2% | Assuming the null hypothesis is true, the conditional percent probability of observing this result is statistically significant, 98% unlikely to happen by chance. |
| 111938 | p<1% | Assuming the null hypothesis is true, the conditional percent probability of observing this result is statistically significant, 99% unlikely to happen by chance. |
| 111939 | p<0.5% | Assuming the null hypothesis is true, the conditional percent probability of observing this result is statistically significant, 99.5% unlikely to happen by chance. |
| 111940 | Corneal axial power map | A two dimensional representation of the axial curvature of the cornea. Axial curvature is calculated from the reciprocal of the distance from a point on a meridian normal at the point to the corneal topographer axis. Also known as sagittal curvature. |
| 111941 | Corneal instantaneous power map | A two dimensional representation of the instantaneous curvature of the cornea. Instantaneous curvature is calculated from the reciprocal of the distance from a point on a meridian normal at the point to the center of curvature of that point. Also called tangential curvature. |
| 111942 | Corneal refractive power map | A two dimensional representation of the refractive power of the cornea. Corneal refractive power is calculated using Snell's Law. |
| 111943 | Corneal elevation map | A two dimensional representation of the elevation of the cornea. Elevation is calculated as the distance from a point on the corneal surface to a point on a reference surface along a line parallel to the corneal topographer axis. For the purpose of visualization the reference surface is usually a sphere or an ellipse. |
| 111944 | Corneal wavefront map | A two dimensional representation of a wavefront aberration surface of the cornea. Wavefront aberration surface is calculated from the corneal elevation data fit with either the Zernike polynomial series or the Fourier Series. Maps generally display total aberrations and selectable higher order aberrations. |
| 111945 | Elevation-based corneal tomographer | A device that measures corneal anterior surface shape using elevation-based methods (stereographic and light slit-based). Rasterstereography images a grid pattern illuminating the fluorescein dyed tear film with 2 cameras to produce 3D. Slit-based devices scan the cornea, usually by rotation about the instrument axis centered on the cornea vertex. |
| 111946 | Reflection-based corneal topographer | A reflection-based device that projects a pattern of light onto the cornea and an image of the reflection of that pattern from the tear film is recorded in one video frame. Light patterns include the circular mire pattern (Placido disc) and spot matrix patterns. Sequential scanning of light spots reflected from the corneal surface is also used requiring multiple video frames for recording. |
| 111947 | Interferometry-based corneal tomographer | An Interference-based device that projects a beam of light onto and through the cornea. Light reflected from within the cornea is combined with a reference beam giving rise to an interference pattern. Appropriately scanned, this imaging is used to construct 3-dimensional images of the cornea from anterior to posterior surfaces. E.g., swept source OCT. |
| 112000 | Chest CAD Report | A structured report containing the results of computer-aided detection or diagnosis applied to chest imaging and associated clinical information. |
| 112001 | Opacity | The shadow of an absorber that attenuates the X-Ray beam more effectively than do surrounding absorbers. In a radiograph, any circumscribed area that appears more nearly white (of lesser photometric density) than its surround [Fraser and Pare]. |

| Code Value | Code Meaning | Definition | |
|------------|---|--|--|
| 112002 | Series Instance UID | A unique identifier for a series of DICOM SOP instances. | |
| 112003 | Associated Chest Component | A named anatomic region within the chest cavity. | |
| 112004 | Abnormal interstitial pattern | A collection of opacities detected within the continuum of loose connective tissue throughout the lung, that is not expected in a diagnostically normal radiograph. | |
| 112005 | Radiographic anatomy | A type of anatomy that is expected to be detectable on a radiographic (X-Ray based) image. | |
| 112006 | Distribution Descriptor | Characteristic of the extent of spreading of a finding or feature. | |
| 112007 | Border definition | Characteristic of the clarity of the boundary or edges of a finding or feature. | |
| 112008 | Site involvement | The part(s) of the anatomy affected or encompassed by a finding or feature. | |
| 112009 | Type of Content | Characteristic of the matter or substance within a finding or feature. | |
| 112010 | Texture Descriptor | Characteristic of the surface or consistency of a finding or feature. | |
| 112011 | Positioner Primary Angle | Position of the X-Ray beam about the patient from the RAO to LAO direction where movement from RAO to vertical is positive. | |
| 112012 | Positioner Secondary Angle | Position of the X-Ray beam about the patient from the caudal to cranial direction where movement from caudal to vertical is positive. | |
| 112013 | Location in Chest | The zone, lobe or segment within the chest cavity in which a finding or feature is situated. | |
| 112014 | Orientation Descriptor | Vertical refers to orientation parallel to the superior-inferior (cephalad-caudad) axis of the body, with horizontal being perpendicular to this, and an oblique orientation having projections in both the horizontal and vertical. | |
| 112015 | Border shape | Characteristic of the shape formed by the boundary or edges of a finding or feature. | |
| 112016 | Baseline Category | Indicates whether a finding was considered a target lesion, non-target lesion, or non-lesion during evaluation of a baseline series, according to a method such as RECIST. | |
| 112017 | Cavity extent as percent of volume | The extent of a detected cavity, represented as the percent of the surrounding volume that it occupies. | |
| 112018 | Calcification extent as percent of surface | The extent of a detected calcification, represented as the percent of the surrounding surface that it occupies. | |
| 112019 | Calcification extent as percent of volume | The extent of a detected calcification, represented as the percent of the surrounding volume that it occupies. | |
| 112020 | Response Evaluation | A heading for the reporting of response evaluation for treatment of solid tumors. | |
| 112021 | Response Evaluation Method | The system applied in the reporting of response evaluation for treatment of solid tumors. | |
| 112022 | RECIST | Response Evaluation Criteria In Solid Tumors; see Normative References. | |
| 112023 | Composite Feature Modifier | A term that further specifies the name of an item that is an inferred correlation relating two or more individual findings or features. | |
| 112024 | Single Image Finding Modifier | A term that further specifies the name of an item that was detected on one image. | |
| 112025 | Size Descriptor | A qualitative descriptor for the extent of a finding or feature. | |
| 112026 | Width Descriptor | A qualitative descriptor for the thickness of tubular structures, such as blood vessels. | |
| 112027 | Opacity Descriptor | A characteristic that further describes the nature of an opacity. | |
| 112028 | Abnormal Distribution of Anatomic Structure | The type of adverse affect that a finding or feature is having on the surrounding anatomy. | |
| 112029 | WHO | Response evaluation method as defined in chapter 5, "Reporting of Response" of the WHO Handbook for Reporting Results for Cancer Treatment; see Normative References. | |
| 112030 | Calcification Descriptor | Identification of the morphology of detected calcifications. | |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 112031 | Attenuation Coefficient | A quantitative numerical statement of the relative attenuation of the X-Ray beam at a specified point. Coefficient that describes the fraction of a beam of X-Rays or gamma rays that is absorbed or scattered per unit thickness of the absorber. This value basically accounts for the number of atoms in a cubic cm volume of material and the probability of a photon being scattered or absorbed from the nucleus or an electron of one of these atoms. Usually expressed in Hounsfield units [referred to as CT Number in Fraser and Pare]. |
| 112032 | Threshold Attenuation Coefficient | An X-Ray attenuation coefficient that is used as a threshold. E.g., in calcium scoring. |
| 112033 | Abnormal opacity | An opacity that is not expected in a diagnostically normal radiograph. |
| 112034 | Calculation Description | A textual description of the mathematical method of calculation that resulted in a calculated value. |
| 112035 | Performance of Pediatric and Adult Chest Radiography, ACR | American College of Radiology. ACR Standard for the Performance of Pediatric and Adult Chest Radiography. In: Standards. Reston, Va: 2001:95-98. |
| 112036 | ACR Position Statement | American College of Radiology. ACR Position Statement for Quality Control and Improvement, Safety, Infection Control, and Patient Concerns. In: <i>Practice Guidelines and Technical Standards</i> . Reston, Va: 2001:iv. |
| 112037 | Non-lesion Modifier | A descriptor for a non-lesion object finding or feature, used to indicate whether the object was detected as being internal or external to the patient's body. |
| 112038 | Osseous Modifier | A concept modifier for an Osseous Anatomy, or bone related, finding. |
| 112039 | Tracking Identifier | A text label used for tracking a finding or feature, potentially across multiple reporting objects, over time. This label shall be unique within the domain in which it is used. Corresponds to Tracking ID (0062,0020). |
| 112040 | Tracking Unique Identifier | A unique identifier used for tracking a finding or feature, potentially across multiple reporting objects, over time. Corresponds to Tracking UID (0062,0021). |
| 112041 | Target Lesion Complete Response | Disappearance of all target lesions. |
| 112042 | Target Lesion Partial Response | At least a 30% decrease in the sum of the Longest Diameter of target lesions, taking as reference the baseline sum Longest Diameter. |
| 112043 | Target Lesion Progressive Disease | At least a 20% increase in the sum of the Longest Diameter of target lesions, taking as reference the smallest sum Longest Diameter recorded since the treatment started, or the appearance of one or more new lesions. |
| 112044 | Target Lesion Stable Disease | Neither sufficient shrinkage to qualify for Partial Response nor sufficient increase to qualify for Progressive Disease, taking as reference the smallest sum Longest Diameter since the treatment started. |
| 112045 | Non-Target Lesion Complete Response | Disappearance of all non-target lesions and normalization of tumor marker level. |
| 112046 | Non-Target Lesion Incomplete Response or Stable Disease | Persistence of one or more non-target lesions and/or maintenance of tumor marker level above the normal limits. |
| 112047 | Non-Target Lesion Progressive Disease | Appearance of one or more new lesions and/or unequivocal progression of existing non-target lesions. |
| 112048 | Current Response | The current response evaluation for treatment of solid tumors, according to a method such as RECIST. |
| 112049 | Best Overall Response | Best response recorded from the start of the treatment until disease progression/recurrence, taking as reference for Progressive Disease the smallest measurements recorded since the treatment started, according to a method such as RECIST. |
| 112050 | Anatomic Identifier | A text identifier of an anatomic feature when a multiplicity of features of that type may be present, such as "Rib 1", "Rib 2" or thoracic vertebrae "T1" or "T2". |
| 112051 | Measurement of Response | A measured or calculated evaluation of response. E.g., according to a method such as RECIST, the value would be the calculated sum of the lengths of the longest axes of a set of target lesions. |

| Code Value | Code Meaning | Definition |
|------------|----------------------------|--|
| 112052 | Bronchovascular | Of or relating to a bronchial (lung) specific channel for the conveyance of a body fluid. |
| 112053 | Osseous | Of, relating to, or composed of bone. |
| 112054 | Secondary pulmonary lobule | The smallest unit of lung surrounded by connective tissue septa; the unit of lung subtended by any bronchiole that gives off three to five terminal bronchioles [Fraser and Pare]. |
| 112055 | Agatston scoring method | A method of calculating an overall calcium score, reflecting the calcification of coronary arteries, based on the maximum X-Ray attenuation coefficient and the area of calcium deposits. |
| 112056 | Volume scoring method | A method of calculating an overall calcium score, reflecting the calcification of coronary arteries, based on the volume of each calcification, typically expressed in mm ³ . |
| 112057 | Mass scoring method | A method of calculating an overall calcium score, reflecting the calcification of coronary arteries, based on the total mass of calcification, typically expressed in mg. |
| 112058 | Calcium score | A measure often arrived at through calculation of findings from CT examination, which is a common predictor of significant stenosis of the coronary arteries. |
| 112059 | Primary complex | The combination of a focus of pneumonia due to a primary infection with granulomas in the draining hilar or mediastinal lymph nodes [Fraser and Pare]. |
| 112060 | Oligemia | General or local decrease in the apparent width of visible pulmonary vessels, suggesting less than normal blood flow (reduced blood flow) [Fraser and Pare]. |
| 112061 | Abnormal lines (1D) | Linear opacity of very fine width, i.e., a nearly one dimensional opacity. |
| 112062 | Abnormal lucency | Area of abnormal very low X-Ray attenuation, typically lower than aerated lung when occurring in or projecting over lung, or lower than soft tissue when occurring in or projecting over soft tissue. |
| 112063 | Abnormal calcifications | A calcific opacity within the lung that may be organized, but does not display the trabecular organization of true bone [Fraser and Pare]. |
| 112064 | Abnormal texture | Relatively homogeneous, extended, pattern of abnormal opacity in the lung, typically low in contrast. |
| 112065 | Reticulonodular pattern | A collection of innumerable small, linear, and nodular opacities that together produce a composite appearance resembling a net with small superimposed nodules. The reticular and nodular elements are dimensionally of similar magnitude [Fraser and Pare]. |
| 112066 | Beaded septum sign | Irregular septal thickening that suggests the appearance of a row of beads; usually a sign of lymphangitic carcinomatosis, but may also occur rarely in sarcoidosis [Fraser and Pare]. |
| 112067 | Nodular pattern | A collection of innumerable, small discrete opacities ranging in diameter from 2-10 mm, generally uniform in size and widespread in distribution, and without marginal spiculation [Fraser and Pare]. |
| 112068 | Pseudoplaque | An irregular band of peripheral pulmonary opacity adjacent to visceral pleura that simulates the appearance of a pleural plaque and is formed by coalescence of small nodules [Fraser and Pare]. |
| 112069 | Signet-ring sign | A ring of opacities (usually representing a dilated, thick-walled bronchus) in association with a smaller, round, soft tissue opacity (the adjacent pulmonary artery) suggesting a "signet ring" [Fraser and Pare]. |
| 112070 | Air bronchogram | Equivalent of air bronchogram, but in airways assumed to be bronchioles because of peripheral location and diameter [Fraser and Pare]. |
| 112071 | Air bronchogram | Radiographic shadow of an air-containing bronchus; presumed to represent an air-containing segment of the bronchial tree (identity often inferred) [Fraser and Pare]. |
| 112072 | Air crescent | Air in a crescentic shape in a nodule or mass, in which the air separates the outer wall of the lesion from an inner sequestrum, which most commonly is a fungus ball of <i>Aspergillus</i> species [Fraser and Pare]. |
| 112073 | Halo sign | Ground-glass opacity surrounding the circumference of a nodule or mass. May be a sign of invasive aspergillosis or hemorrhage of various causes [Fraser and Pare]. |

| Code Value | Code Meaning | Definition |
|------------|----------------------------------|---|
| 112074 | Target Lesion at Baseline | Flag denoting that this lesion was identified, at baseline, as a target lesion intended for tracking over time [RECIST]. |
| 112075 | Non-Target Lesion at Baseline | Flag denoting that this lesion was not identified, at baseline, as a target lesion, and was not intended for tracking over time [RECIST]. |
| 112076 | Non-Lesion at Baseline | Flag denoting that this finding was identified, at baseline, as a category other than a lesion, and was not intended for tracking over time [RECIST]. |
| 112077 | Vasoconstriction | Local or general reduction in the caliber of visible pulmonary vessels, presumed to result from decreased flow occasioned by contraction of muscular pulmonary arteries [Fraser and Pare]. |
| 112078 | Vasodilation | Local or general increase in the width of visible pulmonary vessels resulting from increased pulmonary blood flow [Fraser and Pare]. |
| 112079 | Architectural distortion | A manifestation of lung disease in which bronchi, pulmonary vessels, a fissure or fissures, or septa of secondary pulmonary lobules are abnormally displaced [Fraser and Pare]. |
| 112080 | Mosaic perfusion | A patchwork of regions of varied attenuation, interpreted as secondary to regional differences in perfusion [Fraser and Pare]. |
| 112081 | Pleonemia | Increased blood flow to the lungs or a portion thereof, manifested by a general or local increase in the width of visible pulmonary vessels [Fraser and Pare]. |
| 112082 | Interface | The common boundary between the shadows of two juxtaposed structures or tissues of different texture or opacity (edge, border) [Fraser and Pare]. |
| 112083 | Line | A longitudinal opacity no greater than 2 mm in width [Fraser and Pare]. |
| 112084 | Lucency | The shadow of an absorber that attenuates the primary X-Ray beam less effectively than do surrounding absorbers. In a radiograph, any circumscribed area that appears more nearly black (of greater photometric density) than its surround [Fraser and Pare]. |
| 112085 | Midlung window | A midlung region, characterized by the absence of large blood vessels and by a paucity of small blood vessels, that corresponds to the minor fissure and adjacent peripheral lung [Fraser and Pare]. |
| 112086 | Carina angle | The angle formed by the right and left main bronchi at the tracheal bifurcation [Fraser and Pare]. |
| 112087 | Centrilobular structures | The pulmonary artery and its immediate branches in a secondary lobule; HRCT depicts these vessels in certain cases; a.k.a. core structures or lobular core structures [Fraser and Pare]. |
| 112088 | Anterior junction line | A vertically oriented linear or curvilinear opacity approximately 1-2 mm wide, commonly projected on the tracheal air shadow [Fraser and Pare]. |
| 112089 | Posterior junction line | A vertically oriented, linear or curvilinear opacity approximately 2 mm wide, commonly projected on the tracheal air shadow, and usually slightly concave to the right [Fraser and Pare]. |
| 112090 | Azygoesophageal recess interface | A space in the right side of the mediastinum into which the medial edge of the right lower lobe extends [Fraser and Pare]. |
| 112091 | Paraspinal line | A vertically oriented interface usually seen in a frontal chest radiograph to the left of the thoracic vertebral column [Fraser and Pare]. |
| 112092 | Posterior tracheal stripe | A vertically oriented linear opacity ranging in width from 2-5 mm, extending from the thoracic inlet to the bifurcation of the trachea, and visible only on lateral radiographs of the chest [Fraser and Pare]. |
| 112093 | Right tracheal stripe | A vertically oriented linear opacity approximately 2-3 mm wide extending from the thoracic inlet to the right tracheobronchial angle [Fraser and Pare]. |
| 112094 | Stripe | A longitudinal composite opacity measuring 2-5 mm in width; acceptable when limited to anatomic structures within the mediastinum [Fraser and Pare]. |
| 112095 | Hiatus | A gap or passage through an anatomical part or organ; especially: a gap through which another part or organ passes. |




| Code Value | Code Meaning | Definition |
|------------|--------------------------------|--|
| 112096 | Rib Scalene Tubercle | A small rounded elevation or eminence on the first rib for the attachment of the scalenus anterior. |
| 112097 | Vertebral Intervertebral Notch | A groove that serves for the transmission of the vertebral artery. |
| 112098 | Subscapular Fossa | The concave depression of the anterior surface of the scapula. |
| 112099 | Scapular Spine | A sloping ridge dividing the dorsal surface of the scapula into the supraspinatous fossa (above), and the infraspinatous fossa (below). |
| 112100 | Scapular Supraspinatus Fossa | The portion of the dorsal surface of the scapula above the scapular spine. |
| 112101 | Scapular Infraspinatus Fossa | The portion of the dorsal surface of the scapula below the scapular spine. |
| 112102 | Aortic knob | The portion of the aortic arch that defines the transition between its ascending and descending limbs. |
| 112103 | Arch of the Azygos vein | Section of Azygos vein near the fourth thoracic vertebra, where it arches forward over the root of the right lung, and ends in the superior vena cava, just before that vessel pierces the pericardium. |
| 112104 | Air-fluid level | A local collection of gas and liquid that, when traversed by a horizontal X-Ray beam, creates a shadow characterized by a sharp horizontal interface between gas density above and liquid density below [Fraser and Pare]. |
| 112105 | Corona radiata | A circumferential pattern of fine linear spicules, approximately 5 mm long, extending outward from the margin of a solitary pulmonary nodule through a zone of relative lucency [Fraser and Pare]. |
| 112106 | Honeycomb pattern | A number of closely approximated ring shadows representing air spaces 5-10 mm in diameter with walls 2-3 mm thick that resemble a true honeycomb; implies "end-stage" lung [Fraser and Pare]. |
| 112107 | Fleischner's line(s) | A straight, curved, or irregular linear opacity that is visible in multiple projections; usually situated in the lower half of the lung; vary markedly in length and width [Fraser and Pare]. |
| 112108 | Intralobular lines | Fine linear opacities present in a lobule when the intralobular interstitium is thickened. When numerous, they may appear as a fine reticular pattern [Fraser and Pare]. |
| 112109 | Kerley A line | Essentially straight linear opacity 2-6 cm in length and 1-3 mm in width, usually in an upper lung zone [Fraser and Pare]. |
| 112110 | Kerley B line | A straight linear opacity 1.5-2 cm in length and 1-2 mm in width, usually at the lung base [Fraser and Pare]. |
| 112111 | Kerley C lines | A group of branching, linear opacities producing the appearing of a fine net, at the lung base [Fraser and Pare]. |
| 112112 | Parenchymal band | Elongated opacity, usually several millimeters wide and up to about 5 cm long, often extending to the pleura, which may be thickened and retracted at the site of contact [Fraser and Pare]. |
| 112113 | Reticular pattern | A collection of innumerable small linear opacities that together produce an appearance resembling a net [Fraser and Pare]. |
| 112114 | Septal line(s) | Usually used in the plural, a generic term for linear opacities of varied distribution produced when the interstitium between pulmonary lobules is thickened [Fraser and Pare]. |
| 112115 | Subpleural line | A thin curvilinear opacity, a few millimeters or less in thickness, usually less than 1 cm from the pleural surface and paralleling the pleura [Fraser and Pare]. |
| 112116 | Tramline shadow | Parallel or slightly convergent linear opacities that suggest the planar projection of tubular structures and that correspond in location and orientation to elements of the bronchial tree [Fraser and Pare]. |
| 112117 | Tubular shadow | Paired, parallel, or slightly convergent linear opacities presumed to represent the walls of a tubular structure seen en face; used if the anatomic nature of a shadow is obscure [Fraser and Pare]. |
| 112118 | Density | The opacity of a radiographic shadow to visible light; film blackening; the term should never be used to mean an "opacity" or "radiopacity" [Fraser and Pare]. |





| Code Value | Code Meaning | Definition |
|------------|-----------------------------|---|
| 112119 | Dependent opacity | Subpleural increased attenuation in dependent lung. The increased attenuation disappears when the region of lung is nondependent; a.k.a. dependent increased attenuation [Fraser and Pare]. |
| 112120 | Ground glass opacity | Hazy increased attenuation of lung, but with preservation of bronchial and vascular margins; caused by partial filling of air spaces, interstitial thickening, partial collapse of alveoli, normal expiration, or increased capillary blood volume [Fraser and Pare]. |
| 112121 | Infiltrate | Any ill-defined opacity in the lung [Fraser and Pare]. |
| 112122 | Micronodule | Discrete, small, round, focal opacity of at least soft tissue attenuation and with a diameter no greater than 7 mm [Fraser and Pare]. |
| 112123 | Phantom tumor (pseudotumor) | A shadow produced by a local collection of fluid in one of the interlobar fissures, usually elliptic in one radiographic projection and rounded in the other, resembling a tumor [Fraser and Pare]. |
| 112124 | Shadow | Any perceptible discontinuity in film blackening attributed to the attenuation of the X-Ray beam by a specific anatomic absorber or lesion on or within the body of the patient; to be employed only when more specific identification is not possible [Fraser and Pare]. |
| 112125 | Small irregular opacities | Term used to define a reticular pattern specific to pneumoconioses [Fraser and Pare]. |
| 112126 | Small rounded opacities | Term used to define a nodular pattern specific to pneumoconioses [Fraser and Pare]. |
| 112127 | Tree-in-bud sign | Nodular dilation of centrilobular branching structures that resembles a budding tree and represents exudative bronchiolar dilation [Fraser and Pare]. |
| 112128 | Granular pattern | Any extended, finely granular pattern of pulmonary opacity within which normal anatomic details are partly obscured [Fraser and Pare]. |
| 112129 | Miliary pattern | A collection of tiny discrete opacities in the lungs, each measuring 2 mm or less in diameter, generally uniform in size and widespread in distribution [Fraser and Pare]. |
| 112130 | Mosaic pattern | Generalized pattern of relatively well defined areas in the lung having different X-Ray attenuations due to a longstanding underlying pulmonary disease. |
| 112131 | Extremely small | A qualitative descriptor of a size that is dramatically less than typical. |
| 112132 | Very small | A qualitative descriptor of a size that is considerably less than typical. |
| 112133 | Too small | A qualitative descriptor of a size that is so small as to be abnormal versus expected size. |
| 112134 | Elliptic | Shaped like an ellipse (oval). |
| 112135 | Lobulated | A border shape that is made up of, provided with, or divided into lobules (small lobes, curved or rounded projections or divisions). |
| 112136 | Spiculated | Radially orientated border shape. |
| 112137 | Sharply defined | The border of a shadow (opacity) is sharply defined [Fraser and Pare]. |
| 112138 | Distinctly defined | The border of a shadow (opacity) is distinctly defined [Fraser and Pare]. |
| 112139 | Well demarcated | The border of a shadow (opacity) is well distinct from adjacent structures [Fraser and Pare]. |
| 112140 | Sharply demarcated | The border of a shadow (opacity) is sharply distinct from adjacent structures [Fraser and Pare]. |
| 112141 | Poorly demarcated | The border of a shadow (opacity) is poorly distinct from adjacent structures [Fraser and Pare]. |
| 112142 | Circumscribed | A shadow (opacity) possessing a complete or nearly complete visible border [Fraser and Pare]. |
| 112143 | Air | Inspired atmospheric gas. The word is sometimes used to describe gas within the body regardless of its composition or site [Fraser and Pare]. |
| 112144 | Soft tissue | Material having X-Ray attenuation properties similar to muscle. |






| Code Value | Code Meaning | Definition | |
|------------|--|---|------------------------|
| 112145 | Calcium | Material having X-Ray attenuation properties similar to calcium, a silver-white bivalent metallic element occurring in plants and animals. | |
| 112146 | Acinar | A pulmonary opacity 4-8 mm in diameter, presumed to represent anatomic acinus, or a collection of opacities in the lung, each measuring 4-8 mm in diameter, and together producing an extended, homogeneous shadow [Fraser and Pare]. | |
| 112147 | Air space | The gas-containing portion of the lung parenchyma, including the acini and excluding the interstitium [Fraser and Pare]. | |
| 112148 | Fibronodular | Sharply defined, approximately circular opacities occurring singly or in clusters, usually in the upper lobes [Fraser and Pare]. | |
| 112149 | Fluffy | A shadow (opacity) that is ill-defined, lacking clear-cut margins [Fraser and Pare]. | |
| 112150 | Linear | A shadow resembling a line; any elongated opacity of approximately uniform width [Fraser and Pare]. | |
| 112151 | Profusion | The number of small opacities per unit area or zone of lung. In the International Labor Organization (ILO) classification of radiographs of the pneumoconioses, the qualifiers 0 through 3 subdivide the profusion into 4 categories. The profusion categories may be further subdivided by employing a 12-point scale [Fraser and Pare]. | |
| 112152 | Silhouette sign | The effacement of an anatomic soft tissue border by either a normal anatomic structure or a pathologic state such as airlessness of adjacent lung or accumulation of fluid in the contiguous pleural space; useful in detecting and localizing an opacity along the axis of the X-Ray beam [Fraser and Pare]. | |
| 112153 | Subpleural | Situated or occurring between the pleura and the body wall. | |
| 112154 | Bat's wing distribution | Spatial arrangement of opacities that bears vague resemblance to the shape of a bat in flight; bilaterally symmetric [Fraser and Pare]. | |
| 112155 | Butterfly distribution | Spatial arrangement of opacities that bears vague resemblance to the shape of a butterfly in flight; bilaterally symmetric [Fraser and Pare]. | |
| 112156 | Centrilobular | Referring to the region of the bronchioloarteriolar core of a secondary pulmonary lobule [Fraser and Pare]. | |
| 112157 | Coalescent | The joining together of a number of opacities into a single opacity [Fraser and Pare]. | |
| 112158 | Lobar | Of or relating to a lobe (a curved or rounded projection or division). E.g., involving an entire lobe of the lung. | |
| 112159 | Hyper-acute | Extremely or excessively acute, as a qualitative measure of severity. | |
| 112160 | Homogeneous (uniform opacity) | Of uniform opacity or texture throughout [Fraser and Pare]. | |
| 112161 | Inhomogeneous | Lack of homogeneity in opacity or texture. | |
| 112162 | Target | Discrete opacity centrally within a larger opacity, as a calcification descriptor. | |
| 112163 | Fibrocalcific | Pertaining to sharply defined, linear, and/or nodular opacities containing calcification(s) [Fraser and Pare]. | |
| 112164 | Flocculent | Calcifications made up of loosely aggregated particles, resembling wool. | |
| 112165 | <i>Difference in border shape</i> | <i>A change in the shape formed by the boundary or edges of a finding or feature.</i> | <i>Reti (F-0 in b</i> |
| 112166 | <i>Difference in border definition</i> | <i>A change in the clarity of the boundary or edges of a finding or feature.</i> | <i>Reti (F-0 bord</i> |
| 112167 | <i>Difference in distribution</i> | <i>A change in the extent of spreading of a finding or feature.</i> | <i>Reti (F-0 in di</i> |
| 112168 | <i>Difference in site involvement</i> | <i>A change in the part(s) of the anatomy affected or encompassed by a finding or feature.</i> | <i>Reti (F-0 site</i> |


| Code Value | Code Meaning | Definition |
|------------|---|---|
| 112169 | <i>Difference in Type of Content</i> | <i>A change in the matter or substance within a finding or feature.</i> |
| 112170 | <i>Difference in Texture</i> | <i>A change in the surface or consistency of a finding or feature.</i> |
| 112171 | Fiducial mark | A location in image space, which may or may not correspond to an anatomical reference, which is often used for registering data sets. |
| 112172 | Portacath | Connected to an injection chamber placed under the skin in the upper part of the chest. When it is necessary to inject some drug, a specific needle is put in the chamber through the skin and a silicon membrane. The advantage of a portacath is that it may be left in place several months contrarily of "classical" catheters. |
| 112173 | Chest tube | A tube inserted into the chest wall from outside the body, for drainage. Sometimes used for collapsed lung. Usually connected to a receptor placed lower than the insertion site. |
| 112174 | Central line | A tube placed into the subclavian vein to deliver medication directly into the venous system. |
| 112175 | Kidney stent | A stent is a tube inserted into another tube. Kidney stent is a tube that is inserted into the kidney, ureter, and bladder, to help drain urine. Usually inserted through a scoping device presented through the urethra. |
| 112176 | Pancreatic stent | A stent is a tube inserted into another tube. Pancreatic stent is inserted through the common bile duct to the pancreatic duct, to drain bile. |
| 112177 | Nipple ring | A non-lesion object that appears to be a circular band, attached to the body via pierced nipple. |
| 112178 | Coin | A non-lesion object that appears to be a flat round piece of metal. |
| 112179 | Minimum Attenuation Coefficient | The least quantity assignable, admissible, or possible; the least of a set of X-Ray attenuation coefficients. |
| 112180 | Maximum Attenuation Coefficient | The greatest quantity or value attainable or attained; the largest of a set of X-Ray attenuation coefficients. |
| 112181 | Mean Attenuation Coefficient | The value that is computed by dividing the sum of a set of X-Ray attenuation coefficients by the number of values . |
| 112182 | Median Attenuation Coefficient | The value in an ordered set of X-Ray attenuation coefficients, below and above which there is an equal number of values. |
| 112183 | Standard Deviation of Attenuation Coefficient | For a set of X-Ray attenuation coefficients: 1) a measure of the dispersion of a frequency distribution that is the square root of the arithmetic mean of the squares of the deviation of each of the class frequencies from the arithmetic mean of the frequency distribution; 2) a parameter that indicates the way in which a probability function or a probability density function is centered around its mean and that is equal to the square root of the moment in which the deviation from the mean is squared. |
| 112184 | Performance of Pediatric and Adult Thoracic CT | American College of Radiology. ACR Standard for the Performance of Pediatric and Adult Thoracic Computed Tomography (CT). In: Standards. Reston, Va: 2001:103-107. |
| 112185 | Performance of CT for Detection of Pulmonary Embolism in Adults | American College of Radiology. ACR Standard for the Performance of Computed Tomography for the Detection of Pulmonary Embolism in Adults. In: Standards. Reston, Va: 2001:109-113. |
| 112186 | Performance of High-Resolution CT of the Lungs in Adults | American College of Radiology. ACR Standard for the Performance of High-Resolution Computed Tomography (HRCT) of the Lungs in Adults. In: Standards. Reston, Va: 2001:115-118. |
| 112187 | Unspecified method of calculation | The method of calculation of a measurement or other type of numeric value is not specified. |
| 112188 | Two-dimensional method | The calculation method was performed in two-dimensional space. |
| 112189 | Three-dimensional method | The calculation method was performed in three-dimensional space. |
| 112191 | Breast tissue density | The relative density of parenchymal tissue as a proportion of breast volume. |

| Code Value | Code Meaning | Definition | |
|------------|--|---|--|
| 112192 | Volume of parenchymal tissue | The volume of parenchymal tissue. | |
| 112193 | Volume of breast | The volume of the breast. | |
| 112194 | Mass of parenchymal tissue | The mass of parenchymal tissue. | |
| 112195 | Mass of breast | The mass of the breast. | |
| 112196 | Area of Vascular Calcification | A measured or calculated area of vascular calcification. | |
| 112197 | Volume of Vascular Calcification | A measured or calculated volume of vascular calcification. | |
| 112198 | Percentage of Vascular Calcification | A measured or calculated percentage of vascular calcification. | |
| 112199 | Mass of Vascular Calcification | A measured or calculated mass of vascular calcification. | |
| 112200 | Average calcification distance in a calcification cluster | The average nearest neighbor distance of all individual microcalcifications in a cluster. | |
| 112201 | Standard deviation distance of calcifications in a cluster | The standard deviation of nearest neighbor distance of all individual microcalcifications in a cluster. | |
| 112220 | Colon CAD Report | A structured report containing the results of computer-aided detection or diagnosis applied to colon imaging and associated clinical information. | |
| 112222 | Colon Overall Assessment | Overall interpretation of the colon using C-RADS categorization system. | |
| 112224 | Image Set Properties | Characteristics of a set of images. | |
| 112225 | Slice Thickness | Nominal slice thickness, in mm. | |
| 112226 | Spacing between slices | Distance between contiguous images, measured from the center-to-center of each image. | |
| 112227 | Frame of Reference UID | Uniquely identifies groups of composite instances that have the same coordinate system that conveys spatial and/or temporal information. | |
| 112228 | Recumbent Patient Position with respect to gravity | Patient orientation with respect to downward direction (gravity). | |
| 112229 | Identifying Segment | Distinguishes a part of a segmentation. | |
| 112232 | Polyp stalk width | The diameter of a polyp stalk measured perpendicular to the axis of the stalk. | |
| 112233 | Distance from anus | The length of the path following the centerline of the colon from the anus to the area of interest. | |
| 112238 | Anatomic non-colon | A location in the body that is outside the colon. | |
| 112240 | C0 - Inadequate Study/Awaiting Prior Comparisons | An inadequate study or a study that is awaiting prior comparisons. The study may have inadequate preparation and cannot exclude lesions greater than or equal to ten millimeters owing to presence of fluid or feces. The study may have inadequate insufflation where one or more colonic segments collapsed on both views. Based on "CT Colonography Reporting and Data System: A Consensus Proposal", Radiology, July 2005; 236:3-9. | |
| 112241 | C1 - Normal Colon or Benign Lesion | The study has a normal colon or benign lesion, with the recommendation to continue routine screening. The study has no visible abnormalities of the colon. The study has no polyps greater than six millimeters. The study may have lipoma, inverted diverticulum, or nonneoplastic findings, such as colonic diverticula. Based on "CT Colonography Reporting and Data System: A Consensus Proposal", Radiology, July 2005; 236:3-9. | |
| 112242 | C2 - Intermediate Polyp or Indeterminate Finding | The study has an intermediate polyp or indeterminate finding and surveillance or colonoscopy is recommended. There may be intermediate polyps between six and nine millimeters and there are less than three in number. The study may have an intermediate finding and cannot exclude a polyp that is greater than or equal to six millimeters in a technically adequate exam. Based on "CT Colonography Reporting and Data System: A Consensus Proposal", Radiology, July 2005; 236:3-9. | |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 112243 | C3 - Polyp, Possibly Advanced Adenoma | The study has a polyp, possibly advanced adenoma, and a follow-up colonoscopy is recommended. The study has a polyp greater than or equal to ten millimeters or the study has three or more polyps that are each between six to nine millimeters. Based on "CT Colonography Reporting and Data System: A Consensus Proposal", Radiology, July 2005; 236:3-9. |
| 112244 | C4 - Colonic Mass, Likely Malignant | The study has a colonic mass, likely malignant, and surgical consultation is recommended. The lesion compromises bowel lumen and demonstrates extracolonic invasion. Based on "CT Colonography Reporting and Data System: A Consensus Proposal", Radiology, July 2005; 236:3-9. |
| 112248 | ACR Guideline, Performance of Adult CT Colonography | American College of Radiology Practice Guideline for the Performance of Computed Tomography (CT) Colonography in Adults. In: <i>Practice Guidelines and Technical Standards</i> . Reston, Va: American College of Radiology;2006:371-376. |
| 112249 | ACR Standard, CT medical physics performance monitoring | American College of Radiology Technical Standard for Diagnostic Medical Physics Performance Monitoring of Computed Tomography (CT) Equipment. In: <i>Practice Guidelines and Technical Standards</i> . Reston, Va: American College of Radiology;2006:945-948. |
| 112300 | AP+45 | View Orientation Modifier indicates that the view orientation of the imaging plane is rotated +45° along the cranial-caudal axis. |
| 112301 | AP-45 | View Orientation Modifier indicates that the view orientation of the imaging plane is rotated -45° along the cranial-caudal axis. |
| 112302 | Anatomical axis of femur | The axis following the shaft of the femur. |
| 112303 | Acetabular Center of Rotation | Center of Rotation of the natural Acetabulum. |
| 112304 | Femur Head Center of Rotation | Center of Rotation of the natural femur head. |
| 112305 | Acetabular Cup Shell | Prosthetic component implanted into the acetabulum. Provides hold for the insert that is mounted inside the cup.  |
| 112306 | Acetabular Cup Insert | Prosthetic pelvic joint component. Inserted into the cup, takes in the femoral head replacement.  |
| 112307 | Acetabular Cup Monoblock | Prosthetic pelvic joint cup including insert.  |

| Code Value | Code Meaning | Definition | |
|------------|-----------------------------------|--|--|
| 112308 | Femoral Head Ball Component | <p>Component for Femoral Head Prosthesis where the conic intake for the stem neck can be exchanged.</p> <p>Combined with a Femoral Head Cone Taper Component.</p>  | |
| 112309 | Femoral Head Cone Taper Component | <p>Exchangeable neck intake for composite femoral head prosthesis.</p> <p>Combined with a Femoral Head Ball Component.</p> | |
| 112310 | Femoral Stem | <p>Prosthesis Implanted into the femoral bone to provide force transmission between joint replacement and bone. On the proximal end a conic neck holds the femoral head replacement.</p>  | |
| 112311 | Femoral Stem Distal Component | <p>Distal half of a modular stem prosthesis system.</p> <p>Combined with a Stem Proximal Component.</p>  | |
| 112312 | Femoral Stem Proximal Component | <p>Proximal half of a modular stem prosthesis system.</p> <p>Combined with a Stem Distal Component.</p>  | |

| Code Value | Code Meaning | Definition |
|------------|------------------------------------|---|
| 112313 | Femoral Stem Component | <p>Stem prosthetic component with a modular insert for an exchangeable neck component.</p> <p>Combined with a Neck Component.</p>  |
| 112314 | Neck Component | <p>Prosthetic Neck to be combined with a Stem Component.</p>  |
| 112315 | Monoblock Stem | <p>Prosthetic Stem and Femoral Head in one piece.</p>  |
| 112316 | Prosthetic Shaft Augment | <p>A proximal attachment to the shaft used to compensate for bone deficiencies or bone loss.</p>  |
| 112317 | Femoral Head Resurfacing Component | <p>Artificial femur head surface needed for the partial replacement of the femoral head where only the surface is replaced.</p>  |
| 112318 | Pinning | Fixation using a pin. |
| 112319 | Sewing | Fixation sewing several objects together. |
| 112320 | Bolting | Fixation using a bolt. |
| 112321 | Wedging | Fixation due to forcing an object into a narrow space. |

| Code Value | Code Meaning | Definition | |
|------------|---|--|---|
| 112325 | Distal Centralizer | Attachment to the distal end of a cemented stem assuring that the stem is in a central position inside the drilled femoral canal before cementation. |  |
| 112340 | Generic 2D Planning | Planning by an unspecified 2D method. | |
| 112341 | Generic 3D Planning | Planning by an unspecified 3D method. | |
| 112342 | Generic Planning for Hip Replacement | Planning of a Hip Replacement, by an unspecified method. | |
| 112343 | Generic Planning for Knee Replacement | Planning of Knee Replacement, by an unspecified method. | |
| 112344 | Müller Method Planning for Hip Replacement | Planning of Hip Replacement according to the procedure of M. E. Müller [Eggl et. al.1998]. | |
| 112345 | Implantation Plan | A Report containing the results of an Implantation Planning Activity. | |
| 112346 | Selected Implant Component | A selection of one Implant Component. | |
| 112347 | Component ID | Identification ID of an Implant Component. | |
| 112348 | Implant Template | An implant template describing the properties (2D/3D geometry and other data) of one Implant Component. | |
| 112350 | Component Connection | A connection of two Connected Implantation Plan Components. | |
| 112351 | Mating Feature Set ID | ID of a Mating Feature Set in an Implant Component. | |
| 112352 | Mating Feature ID | ID of the Mating Feature in a Mating Feature Set in an Implant Component. | |
| 112353 | Spatial Registration | The Spatial Registration of one or more Implant Components. | |
| 112354 | Patient Image | Patient Images used for an implantation planning activity. | |
| 112355 | Assembly | A collection of Component Connections of Implant Components. | |
| 112356 | User Selected Fiducial | Fiducials that are selected by the user and may or may not belong to anatomical landmarks. | |
| 112357 | Derived Fiducial | Fiducials that represent geometric characteristics, such as center of rotation, and are derived from other fiducials. | |
| 112358 | Information used for planning | All parameters and data that were used for the planning activity. | |
| 112359 | Supporting Information | A description of the plan as encapsulated PDF SOP Instance. | |
| 112360 | Implant Component List | A list of all Implant Components selected for an implantation. | |
| 112361 | Patient Data Used During Planning | Reference to objects containing patient data that is used for planning. | |
| 112362 | Degrees of Freedom Specification | A specification of the values from one or more Degrees of Freedom. | |
| 112363 | Degree of Freedom ID | ID of one Degree of Freedom. | |
| 112364 | Related Patient Data Not Used During Planning | Reference to objects containing patient data that were not used for planning but are somehow related. | |
| 112365 | Related Implantation Reports | Implantation Reports that are somehow related. E.g., contemporaneous implantations that are independent. | |
| 112366 | Implant Assembly Template | Implant Assembly Template. | |
| 112367 | Planning Information for Intraoperative Usage | Information that is intended to be used intra-operatively. | |
| 112368 | Implantation Patient Positioning | Position of the patient on the operating room table. | |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 112369 | Fiducial Intent | Intended use of the fiducial. |
| 112370 | Component Type | Type of an Implant Component. |
| 112371 | Manufacturer Implant Template | Implant Template released by the Manufacturer. |
| 112372 | Derived Planning Images | Images that are created by a planning application. |
| 112373 | Other Derived Planning Data | Data that is created by a planning application. |
| 112374 | Connected Implantation Plan Component | One Implant Component that is connected to another Implant Component. |
| 112375 | Planning Method | The method used for planning. |
| 112376 | Degree of Freedom Exact Translational Value | Defines the exact value that was planned for translation. |
| 112377 | Degree of Freedom Minimum Translational Value | Defines the minimum value that was planned for translation. |
| 112378 | Degree of Freedom Maximum Translational Value | Defines the maximum value that was planned for translation. |
| 112379 | Degree of Freedom Exact Rotational Translation Value | Defines the exact value that was planned for rotation. |
| 112380 | Degree of Freedom Minimum Rotational Value | Defines the minimum value that was planned for rotation. |
| 112381 | Degree of Freedom Maximum Rotational Value | Defines the maximum value that was planned for rotation. |
| 112700 | Peri-operative Photographic Imaging | Procedure step protocol for photographic imaging of surgical procedures, including photography of specimens collected. |
| 112701 | Gross Specimen Imaging | Procedure step protocol for imaging gross specimens, typically with a photographic camera (modality XC), and planning further dissection. |
| 112702 | Slide Microscopy | Procedure step protocol for imaging slide specimens. |
| 112703 | Whole Slide Imaging | Procedure step protocol for imaging slide specimens using a whole slide scanner. |
| 112704 | WSI 20X RGB | Procedure step protocol for imaging slide specimens using a whole slide scanner with a 20X nominal objective lens, in full color, with a single imaging focal plane across the image. |
| 112705 | WSI 40X RGB | Procedure step protocol for imaging slide specimens using a whole slide scanner with a 40X nominal objective lens, in full color, with a single imaging focal plane across the image. |
| 112706 | Illumination Method | Technique of illuminating specimen. |
| 112707 | Number of focal planes | Number of focal planes for a microscopy image acquisition. |
| 112708 | Focal plane Z offset | Nominal distance above a reference plane (typically a slide glass substrate top surface) of the focal plane. |
| 112709 | Magnification selection | Microscope magnification based on nominal objective lens power. |
| 112710 | Illumination wavelength | Nominal center wavelength for an imaging spectral band. |
| 112711 | Illumination spectral band | Name (coded) for an imaging spectral band. |
| 112712 | Optical filter type | Type of filter inserted into the optical imaging path. |
| 112713 | Tissue selection method | Technique for identifying tissue to be imaged versus area of slide not to be imaged. |
| 112714 | Multiple planes | Imaging performed at multiple imaging (focal) planes. |
| 112715 | 5X | Nominal 5 power objective lens, resulting in a digital image at approximately 2 um/pixel spacing. |
| 112716 | 10X | Nominal 10 power objective lens, resulting in a digital image at approximately 1 um/pixel spacing. |
| 112717 | 20X | Nominal 20 power microscope objective lens, resulting in a digital image at approximately 0.5 um/pixel spacing. |

| Code Value | Code Meaning | Definition |
|------------|---------------------------------------|--|
| 112718 | 40X | Nominal 40 power microscope objective lens, with a combined condenser and objective lens numerical aperture of approximately 1.3, resulting in a digital image at approximately 0.25 um/pixel spacing. |
| 112719 | Nominal empty tile suppression | Equipment-specific nominal or default method for identifying tiles without tissue imaged for suppression from inclusion in image object. |
| 112720 | High threshold empty tile suppression | Equipment-specific high threshold method for identifying tiles without tissue imaged for suppression from inclusion in image object. |
| 112721 | No empty tile suppression | Tiles without tissue imaged are not suppressed from inclusion in image object. |
| 113000 | Of Interest | Of Interest. |
| 113001 | Rejected for Quality Reasons | Rejected for Quality Reasons. |
| 113002 | For Referring Provider | For Referring Provider. |
| 113003 | For Surgery | For Surgery. |
| 113004 | For Teaching | For Teaching. |
| 113005 | For Conference | For Conference. |
| 113006 | For Therapy | For Therapy. |
| 113007 | For Patient | For Patient. |
| 113008 | For Peer Review | For Peer Review. |
| 113009 | For Research | For Research. |
| 113010 | Quality Issue | Quality Issue. |
| 113011 | Document Title Modifier | Document Title Modifier. |
| 113012 | Key Object Description | Key Object Description. |
| 113013 | Best In Set | A selection that represents the "best" chosen from a larger set of items. E.g., the best images within a Study or Series. The criteria against which "best" is measured is not defined. Contrast this with the more specific term "Best illustration of finding". |
| 113014 | Study | A study is a collection of one or more series of medical images, presentation states, and/or SR documents that are logically related for the purpose of diagnosing a patient. A study may include composite instances that are created by a single modality, multiple modalities or by multiple devices of the same modality. [From Section A.1.2.2 "Study IE" in PS3.3] |
| 113015 | Series | A distinct logical set used to group composite instances. All instances within a Series are of the same modality, in the same Frame of Reference (if any), and created by the same equipment. [See Section A.1.2.3 "Series IE" in PS3.3] |
| 113016 | Performed Procedure Step | An arbitrarily defined unit of service that has actually been performed (not just scheduled). [From Section 7.3.1.9 "Modality Performed Procedure Step" in PS3.3] |
| 113017 | Stage-View | An image or set of images illustrating a specific stage (phase in a stress echo exam protocol) and view (combination of the transducer position and orientation at the time of image acquisition). |
| 113018 | For Printing | For Printing. |
| 113020 | For Report Attachment | Selection of information objects for attachment to the clinical report of the Current Requested Procedure. |
| 113021 | For Litigation | List of objects that are related to litigation and should be specially handled. E.g., may apply if a complaint has been received regarding a patient, or a specific set of images has been the subject of a subpoena, and needs to be sequestered or excluded from automatic purging according to retention policy. |
| 113022 | Collection of Presentation States | This Key Object Selection Document references Presentation State instances that are related, which may or may not share a value of Presentation Display Collection UID (0070,1101) or Presentation Sequence Collection UID (0070,1102). |
| 113026 | Double exposure | Double exposure. |

| Code Value | Code Meaning | Definition |
|------------|-------------------------------------|--|
| 113030 | Manifest | A list of objects that have been exported out of one organizational domain into another domain. Typically, the first domain has no direct control over what the second domain will do with the objects. |
| 113031 | Signed Manifest | A signed list of objects that have been exported out of one organizational domain into another domain, referenced securely with either Digital Signatures or MACs. Typically, the first domain has no direct control over what the second domain will do with the objects. |
| 113032 | Complete Study Content | The list of objects that constitute a study at the time that the list was created. |
| 113033 | Signed Complete Study Content | The signed list of objects that constitute a study at the time that the list was created, referenced securely with either Digital Signatures or MACs. |
| 113034 | Complete Acquisition Content | The list of objects that were generated in a single procedure step. |
| 113035 | Signed Complete Acquisition Content | The signed list of objects that were generated in a single procedure step, referenced securely with either Digital Signatures or MACs. |
| 113036 | Group of Frames for Display | A list of frames or single-frame or entire multi-frame instances that together constitute a set for some purpose, such as might be displayed together in the same viewport, as distinct from another set that might be displayed in a separate viewport. |
| 113037 | Rejected for Patient Safety Reasons | List of objects whose use is potentially harmful to the patient. E.g., an improperly labeled image could lead to dangerous surgical decisions. |
| 113038 | Incorrect Modality Worklist Entry | List of objects that were acquired using an incorrect modality worklist entry, and that should not be used, since they may be incorrectly identified. |
| 113039 | Data Retention Policy Expired | List of objects that have expired according to a defined data retention policy. |
| 113040 | Lossy Compression | Lossy compression has been applied to an image. |
| 113041 | Apparent Diffusion Coefficient | <p>Values are derived by calculation of the apparent diffusion coefficient. This concept may be used for the diffusion coefficient of various different models, e.g., mono-exponential (ADC_m), kurtosis (ADC_k), stretched-exponential (ADC_s).</p> <p>The "apparent" appellation is because the diffusion images from which the ADC is computed may also be affected by T2 contrast (T2 "shine-through"), so this concept is distinguished from a "pure" diffusion coefficient that is not so affected.</p> |
| 113042 | Pixel by pixel addition | Values are derived by the pixel by pixel addition of two images. |
| 113043 | Diffusion weighted | Values are derived by calculation of the diffusion weighting. |
| 113044 | Diffusion Anisotropy | Values are derived by calculation of the diffusion anisotropy. |
| 113045 | Diffusion Attenuated | Values are derived by calculation of the diffusion attenuation. |
| 113046 | Pixel by pixel division | Values are derived by the pixel by pixel division of two images. |

| Code Value | Code Meaning | Definition | |
|------------|--|---|--|
| 113047 | Pixel by pixel mask | Values are derived by the pixel by pixel masking of one image by another. | |
| 113048 | Pixel by pixel Maximum | Values are derived by calculating the pixel by pixel maximum of two or more images. | |
| 113049 | Pixel by pixel mean | Values are derived by calculating the pixel by pixel mean of two or more images. | |
| 113050 | Metabolite Maps from spectroscopy data | Values are derived by calculating from spectroscopy data pixel values localized in two dimensional space based on the concentration of specific metabolites (i.e, at specific frequencies). | |
| 113051 | Pixel by pixel Minimum | Values are derived by calculating the pixel by pixel minimum of two or more images. | |
| 113052 | Mean Transit Time | The time required for blood to pass through a region of tissue. | |
| 113053 | Pixel by pixel multiplication | Values are derived by the pixel by pixel multiplication of two images. | |
| 113054 | Negative Enhancement Integral | Values are derived by calculating negative enhancement integral values. | |
| 113055 | Regional Cerebral Blood Flow | The flow rate of blood perfusing a region of the brain as volume per mass per unit of time. | |
| 113056 | Regional Cerebral Blood Volume | The volume of blood perfusing a region of brain as as volume per mass. | |
| 113057 | R-Coefficient | Correlation Coefficient, r. | |
| 113058 | Proton Density | Values are derived by calculating proton density values. | |
| 113059 | Signal Change | Values are derived by calculating signal change values. | |
| 113060 | Signal to Noise | Values are derived by calculating the signal to noise ratio. | |
| 113061 | Standard Deviation | Values are derived by calculating the standard deviation of two or more images. | |
| 113062 | Pixel by pixel subtraction | Values are derived by the pixel by pixel subtraction of two images. | |
| 113063 | T1 | The time constant for the decay of longitudinal magnetization caused by spin-lattice relaxation. The inverse of the longitudinal relaxation rate constant, i.e., $T1 = 1/R1$. | |
| 113064 | T2* | The time constant for the decay of transverse magnetization caused by a combination of spin-spin relaxation and magnetic field inhomogeneity. The inverse of the transverse relaxation rate constant, i.e., $T2^* = 1/R2^*$. | |
| 113065 | T2 | The time constant for the decay of transverse magnetization caused by spin-spin relaxation. The inverse of the transverse relaxation rate constant, i.e., $T2 = 1/R2$. | |
| 113066 | Time Course of Signal | Values are derived by calculating values based on the time course of signal. | |
| 113067 | Temperature encoded | Values are derived by calculating values based on temperature encoding. | |
| 113068 | Student's T-Test | Values are derived by calculating the value of the Student's T-Test statistic from multiple image samples. | |
| 113069 | Time To Peak | The time from the start of the contrast agent injection to the maximum enhancement value. | |
| 113070 | Velocity encoded | Values are derived by calculating values based on velocity encoded. E.g., phase contrast. | |
| 113071 | Z-Score | Values are derived by calculating the value of the Z-Score statistic from multiple image samples. | |
| 113072 | Multiplanar reformatting | Values are derived by reformatting in a flat plane other than that originally acquired. | |
| 113073 | Curved multiplanar reformatting | Values are derived by reformatting in a curve plane other than that originally acquired. | |
| 113074 | Volume rendering | Values are derived by volume rendering of acquired data. | |
| 113075 | Surface rendering | Values are derived by surface rendering of acquired data. | |
| 113076 | Segmentation | Values are derived by segmentation (classification into tissue types) of acquired data. | |
| 113077 | Volume editing | Values are derived by selectively editing acquired data (removing values from the volume), such as in order to remove obscuring structures or noise. | |
| 113078 | Maximum intensity projection | Values are derived by maximum intensity projection of acquired data. | |
| 113079 | Minimum intensity projection | Values are derived by minimum intensity projection of acquired data. | |
| 113080 | Glutamate and glutamine | For single-proton MR spectroscopy, the resonance peak corresponding to glutamate and glutamine. | |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 113081 | Choline/Creatine Ratio | For single-proton MR spectroscopy, the ratio between the Choline and Creatine resonance peaks. |
| 113082 | N-acetylaspartate /Creatine Ratio | For single-proton MR spectroscopy, the ratio between the N-acetylaspartate and Creatine resonance peaks. |
| 113083 | N-acetylaspartate /Choline Ratio | For single-proton MR spectroscopy, the ratio between the N-acetylaspartate and Choline resonance peaks. |
| 113084 | Tmax | <p>The time delay to the maximum of the residue function after deconvolution.</p> <p>Shih LC, Saver JL, Alger JR, Starkman S, Leary MC, Vinuela F, et al. Perfusion-Weighted Magnetic Resonance Imaging Thresholds Identifying Core, Irreversibly Infarcted Tissue. Stroke. 2003 Jun 1;34(6):1425–30. doi:10.1161/01.STR.0000072998.70087.E9. 10.1161/01.STR.0000072998.70087.E9. http://stroke.ahajournals.org/content/34/6/1425.abstract</p> <p>Østergaard L, Weisskoff RM, Chesler DA, Gyldensted C, Rosen BR. High resolution measurement of cerebral blood flow using intravascular tracer bolus passages. Part I: Mathematical approach and statistical analysis. Magnetic Resonance in Medicine. 1996;36(5):715–25. doi:10.1002/mrm.1910360510. 10.1002/mrm.1910360510. http://onlinelibrary.wiley.com/doi/10.1002/mrm.1910360510/abstract</p> |
| 113085 | Spatial resampling | Values are derived by spatial resampling of acquired data. |
| 113086 | Edge enhancement | Values are derived by edge enhancement. |
| 113087 | Smoothing | Values are derived by smoothing. |
| 113088 | Gaussian blur | Values are derived by Gaussian blurring. |
| 113089 | Unsharp mask | Values are derived by unsharp masking. |
| 113090 | Image stitching | Values are derived by stitching two or more images together. |
| 113091 | Spatially-related frames extracted from the volume | Spatially-related frames in this image are representative frames from the referenced 3D volume data set. |
| 113092 | Temporally-related frames extracted from the set of volumes | Temporally-related frames in this image are representative frames from the referenced 3D volume data set. |
| 113093 | Polar to Rectangular Scan Conversion | Conversion of a polar coordinate image to rectangular (Cartesian) coordinate image. |
| 113094 | Creatine and Choline | For single-proton MR spectroscopy, the resonance peak corresponding to creatine and choline. |
| 113095 | Lipid and Lactate | For single-proton MR spectroscopy, the resonance peak corresponding to lipid and lactate. |
| 113096 | Creatine+Choline/ Citrate Ratio | For single-proton MR spectroscopy, the ratio between the Choline and Creatine resonance peak and the Citrate resonance peak. |
| 113097 | Multi-energy proportional weighting | Image pixels created through proportional weighting of multiple acquisitions at distinct X-Ray energies. |
| 113098 | Magnetization Transfer Ratio | <p>Magnetization Transfer Ratio (MTR) is the ratio of magnetization transfer, $M_0 - M_s/M_0$, where M_s represents the magnitude of signal of tissues with the saturation pulse used to saturate macromolecular protons on, and M_0 is the magnitude of signal without saturation.</p> <p>See Dousset V, Grossman RI, Ramer KN, Schnall MD, Young LH, Gonzalez-Scarano F, et al. Experimental allergic encephalomyelitis and multiple sclerosis: lesion characterization with magnetization transfer imaging. Radiology. 1992 Feb 1;182(2):483–91. http://dx.doi.org/10.1148/radiology.182.2.1732968</p> |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 113100 | Basic Application Confidentiality Profile | De-identification using a profile defined in PS3.15 that requires removing all information related to the identity and demographic characteristics of the patient, any responsible parties or family members, any personnel involved in the procedure, the organizations involved in ordering or performing the procedure, additional information that could be used to match instances if given access to the originals, such as UIDs, dates and times, and private attributes, when that information is present in the non-Pixel Data Attributes, including graphics or overlays. |
| 113101 | Clean Pixel Data Option | Additional de-identification according to an option defined in PS3.15 that requires any information burned in to the Pixel Data corresponding to the Attribute information specified to be removed by the Profile and any other Options specified also be removed. |
| 113102 | Clean Recognizable Visual Features Option | Additional de-identification according to an option defined in PS3.15 that requires that sufficient removal or distortion of the Pixel Data shall be applied to prevent recognition of an individual from the instances themselves or a reconstruction of a set of instances. |
| 113103 | Clean Graphics Option | Additional de-identification according to an option defined in PS3.15 that requires that any information encoded in graphics, text annotations or overlays corresponding to the Attribute information specified to be removed by the Profile and any other Options specified also be removed. |
| 113104 | Clean Structured Content Option | Additional de-identification according to an option defined in PS3.15 that requires that any information encoded in SR Content Items or Acquisition Context Sequence Items corresponding to the Attribute information specified to be removed by the Profile and any other Options specified also be removed. |
| 113105 | Clean Descriptors Option | Additional de-identification according to an option defined in PS3.15 that requires that any information that is embedded in text or string Attributes corresponding to the Attribute information specified to be removed by the Profile and any other Options specified also be removed. |
| 113106 | Retain Longitudinal Temporal Information Full Dates Option | Retention of information that would otherwise be removed during de-identification according to an option defined in PS3.15 that requires that any dates and times be retained,. |
| 113107 | Retain Longitudinal Temporal Information Modified Dates Option | Retention of information that would otherwise be removed during de-identification according to an option defined in PS3.15 that requires that any dates and times be modified in a manner that preserves temporal relationships. E.g., Study Date and Time. |
| 113108 | Retain Patient Characteristics Option | Retention of information that would otherwise be removed during de-identification according to an option defined in PS3.15 that requires that any physical characteristics of the patient, which are descriptive rather than identifying information per se, be retained. E.g., Patient's Age, Sex, Size (height) and Weight. |
| 113109 | Retain Device Identity Option | Retention of information that would otherwise be removed during de-identification according to an option defined in PS3.15 that requires that any information that identifies a device be retained. E.g., Device Serial Number. |
| 113110 | Retain UIDs Option | Retention of information that would otherwise be removed during de-identification according to an option defined in PS3.15 that requires that UIDs be retained. E.g., SOP Instance UID. |
| 113111 | Retain Safe Private Option | Retention of information that would otherwise be removed during de-identification according to an option defined in PS3.15 that requires that private attributes that are known not to contain identity information be retained. E.g., private SUV scale factor. |
| 113130 | Predecessor containing group of imaging subjects | Images used as the source for an image processing operation that extracts data for a single subject from an image containing data for multiple subjects (e.g., a group of animals imaged simultaneously). |
| 113131 | Extraction of individual subject from group | An image processing operation that extracts data for a single subject from an image containing data for multiple subjects (e.g., a group of animals imaged simultaneously). |
| 113132 | Single subject selected from group | A single subject that has been selected from amongst multiple subjects (e.g., a group of animals imaged simultaneously). |

| Code Value | Code Meaning | Definition |
|------------|-------------------------------|---|
| 113201 | Trace | <p>Sum of the diffusion tensor eigenvalues.</p> <p>I.e.: $Tr = \lambda_1 + \lambda_2 + \lambda_3$, where $\lambda_1 \geq \lambda_2 \geq \lambda_3$.</p> <p>Reference: Winston GP. The physical and biological basis of quantitative parameters derived from diffusion MRI. Quantitative Imaging in Medicine and Surgery. 2012;2(4):254-265. doi:10.3978/j.issn.2223-4292.2012.12.05-10.3978/j.issn.2223-4292.2012.12.05.. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3533595/)</p> |
| 113202 | Mean Diffusivity | <p>Average of the diffusion tensor eigenvalues in all directions.</p> <p>I.e.: $MD = (\lambda_1 + \lambda_2 + \lambda_3) / 3$</p> <p>Reference: Winston GP. The physical and biological basis of quantitative parameters derived from diffusion MRI. Quantitative Imaging in Medicine and Surgery. 2012;2(4):254-265. doi:10.3978/j.issn.2223-4292.2012.12.05-10.3978/j.issn.2223-4292.2012.12.05.. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3533595/)</p> |
| 113203 | Radial Diffusivity | <p>Average of the two non-principal (i.e., perpendicular) diffusion tensor eigenvalues(also known as transverse diffusivity, perpendicular diffusivity).</p> <p>I.e.: $DR = (\lambda_2 + \lambda_3) / 2$</p> <p>Reference: Winston GP. The physical and biological basis of quantitative parameters derived from diffusion MRI. Quantitative Imaging in Medicine and Surgery. 2012;2(4):254-265. doi:10.3978/j.issn.2223-4292.2012.12.05-10.3978/j.issn.2223-4292.2012.12.05.. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3533595/)</p> |
| 113204 | Axial Diffusivity | <p>Diffusion tensor eigenvalue of the principal axis (also known as longitudinal diffusivity, parallel diffusivity).</p> <p>I.e.: $DA = \lambda_1$</p> <p>Reference: Winston GP. The physical and biological basis of quantitative parameters derived from diffusion MRI. Quantitative Imaging in Medicine and Surgery. 2012;2(4):254-265. doi:10.3978/j.issn.2223-4292.2012.12.05-10.3978/j.issn.2223-4292.2012.12.05.. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3533595/)</p> |
| 113205 | Mean Kurtosis | <p>MK = diffusional kurtosis averaged over all gradient directions</p> <p>Reference: Tabesh A, Jensen JH, Ardekani BA, Helpert JA. Estimation of Tensors and Tensor-Derived Measures in Diffusional Kurtosis Imaging. Magnetic Resonance in Medicine. 2011;65(3):823-836. doi:10.1002/mrm.22655-10.1002/mrm.22655.. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3042509/)</p> <p>Reference: Liu C, Mang SC, Moseley ME. In Vivo Generalized Diffusion Tensor Imaging (GDTI) Using Higher-Order Tensors (HOT). Magnetic resonance in medicine : official journal of the Society of Magnetic Resonance in Medicine / Society of Magnetic Resonance in Medicine. 2010;63(1):243-252. doi:10.1002/mrm.22192-10.1002/mrm.22192.. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2824337/)</p> |
| 113206 | Apparent Kurtosis Coefficient | <p>AKC = diffusional kurtosis in a given direction</p> <p>Reference: Liu C, Mang SC, Moseley ME. In Vivo Generalized Diffusion Tensor Imaging (GDTI) Using Higher-Order Tensors (HOT). Magnetic resonance in medicine : official journal of the Society of Magnetic Resonance in Medicine / Society of Magnetic Resonance in Medicine. 2010;63(1):243-252. doi:10.1002/mrm.22192-10.1002/mrm.22192.. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2824337/)</p> |

| Code Value | Code Meaning | Definition |
|------------|----------------------------------|--|
| 113207 | Radial Kurtosis | <p>KR = diffusional kurtosis perpendicular to the direction of the highest diffusion (also known as transverse kurtosis, perpendicular kurtosis)</p> <p>Reference: Tabesh A, Jensen JH, Ardekani BA, Helpert JA. Estimation of Tensors and Tensor-Derived Measures in Diffusional Kurtosis Imaging. Magnetic Resonance in Medicine. 2011;65(3):823-836. doi:10.1002/mrm.22655. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3042509/)</p> |
| 113208 | Axial Kurtosis | <p>KA = diffusional kurtosis in the direction of the highest diffusion (also known as longitudinal kurtosis, parallel kurtosis)</p> <p>Reference: Tabesh A, Jensen JH, Ardekani BA, Helpert JA. Estimation of Tensors and Tensor-Derived Measures in Diffusional Kurtosis Imaging. Magnetic Resonance in Medicine. 2011;65(3):823-836. doi:10.1002/mrm.22655. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3042509/)</p> |
| 113209 | Fractional Kurtosis Anisotropy | <p>FKA = fractional kurtosis of diffusion in tissues</p> <p>Reference: Liu C, Mang SC, Moseley ME. In Vivo Generalized Diffusion Tensor Imaging (GDTI) Using Higher-Order Tensors (HOT). Magnetic resonance in medicine : official journal of the Society of Magnetic Resonance in Medicine / Society of Magnetic Resonance in Medicine. 2010;63(1):243-252. doi:10.1002/mrm.22192. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2824337/)</p> |
| 113211 | Deterministic Tracking Algorithm | <p>Tracking based on local directionality</p> <p>Reference: Descoteaux M, Deriche R, Knösche TR, Anwander A. Deterministic and probabilistic tractography based on complex fibre orientation distributions. IEEE Trans Med Imaging. 2009; 28(2):269-86 (http://www.ncbi.nlm.nih.gov/pubmed/19188114)</p> |
| 113212 | Probabilistic Tracking Algorithm | <p>Tracking using local fiber orientation likelihood derive global connectivity likelihood</p> <p>Reference: Descoteaux M, Deriche R, Knösche TR, Anwander A. Deterministic and probabilistic tractography based on complex fibre orientation distributions. IEEE Trans Med Imaging. 2009; 28(2):269-86 (http://www.ncbi.nlm.nih.gov/pubmed/19188114)</p> |
| 113213 | Global Tracking Algorithm | <p>Tracking allfibers simultaneously, searching for a global optimum.</p> <p>Reference: Reisert M, Mader I, Anastasopoulos C, Weigel M, Schnell S, Kiselev V. Global fiber reconstruction becomes practical. NeuroImage. 2011 Jan 15;54(2):955-62. (http://www.ncbi.nlm.nih.gov/pubmed/20854913)</p> |
| 113214 | FACT | <p>Fiber Assessment by Continuous Tracking</p> <p>Reference: Mori S, Crain BJ, Chacko VP, van Zijl PC. Three-dimensional tracking of axonal projections in the brain by magnetic resonance imaging. Ann Neurol. 1999 Feb;45(2):265-9 (http://www.ncbi.nlm.nih.gov/pubmed/9989633)</p> <p>Reference: Descoteaux M, Deriche R, Knösche TR, Anwander A. Deterministic and probabilistic tractography based on complex fibre orientation distributions. IEEE Trans Med Imaging. 2009; 28(2):269-86 (http://www.ncbi.nlm.nih.gov/pubmed/19188114)</p> |
| 113215 | Streamline | <p>Streamline tracking techniques (STT)</p> <p>Reference: Basser PJ, Pajevic S, Pierpaoli C, Duda J, Aldroubi A. In vivo fiber tractography using DT-MRI data. Magn Reson Med. 2000 Oct;44(4):625-32 (http://www.ncbi.nlm.nih.gov/pubmed/11025519)</p> |
| 113216 | TEND | <p>Tensor Deflection</p> <p>Reference: Lazar M, Weinstein DM, Tsuruda JS, Hasan KM, Arfanakis K, Meyerand ME, Badie B, Rowley HA, Haughton V, Field A, Alexander AL. White matter tractography using diffusion tensor deflection. Hum Brain Mapp. 2003 Apr;18(4):306-21. (http://www.ncbi.nlm.nih.gov/pubmed/12632468)</p> |

| Code Value | Code Meaning | Definition |
|------------|------------------------------|--|
| 113217 | Bootstrap Tracking Algorithm | <p>Non-parametric estimation of fiber tracking dispersion</p> <p>Reference: Lazar M, Alexander AL. Bootstrap white matter tractography (BOOT-TRAC). Neuroimage. 2005 Jan 15;24(2) :524-32. Epub 2004 Nov 24. (http://www.ncbi.nlm.nih.gov/pubmed/15627594)</p> <p>Reference: Jones DK, Pierpaoli C. Confidence mapping in diffusion tensor magnetic resonance imaging tractography using a bootstrap approach. Magn Reson Med.2005 May;53(5) :1143-9. (http://www.ncbi.nlm.nih.gov/pubmed/15844149)</p> |
| 113218 | Euler | <p>Integration method, 1st order</p> <p>Reference: Basser PJ, Pajevic S, Pierpaoli C, Duda J, Aldroubi A. In vivo fiber tractography using DT-MRI data. Magn Reson Med. 2000 Oct;44(4) :625-32 (http://www.ncbi.nlm.nih.gov/pubmed/11025519)</p> <p>Reference: Descoteaux M, Deriche R, Knösche TR, Anwender A. Deterministic and probabilistic tractography based on complex fibre orientation distributions. IEEE Trans Med Imaging.2009; 28(2) :269-86 (http://www.ncbi.nlm.nih.gov/pubmed/19188114)</p> |
| 113219 | Runge-Kutta | <p>Integration method, 2nd or 4th order</p> <p>Reference: Basser PJ, Pajevic S, Pierpaoli C, Duda J, Aldroubi A. In vivo fiber tractography using DT-MRI data. Magn Reson Med. 2000 Oct;44(4) :625-32 (http://www.ncbi.nlm.nih.gov/pubmed/11025519)</p> |
| 113221 | HARDI | <p>High Angular Resolution Diffusion Imaging</p> <p>Reference: Tuch DS, Reese TG, Wiegell MR, Makris N, Belliveau JW, Wedeen VJ. High angular resolution diffusion imaging reveals intravoxel white matter fiber heterogeneity. Magn Reson Med.2002 Oct;48(4) :577-82. (http://www.ncbi.nlm.nih.gov/pubmed/12353272)</p> <p>Reference: Descoteaux M, Deriche R, Knösche TR, Anwender A. Deterministic and probabilistic tractography based on complex fibre orientation distributions. IEEE Trans Med Imaging.2009; 28(2) :269-86 (http://www.ncbi.nlm.nih.gov/pubmed/19188114)</p> |
| 113222 | DKI | <p>Diffusion(al) Kurtosis Imaging</p> <p>Reference: Jensen JH, Helpert JA, Ramani A, Lu H, Kaczynski K. Diffusional kurtosis imaging: the quantification of non-gaussian water diffusion by means of magnetic resonance imaging. Magn Reson Med. 2005 Jun;53(6) :1432-40. (http://www.ncbi.nlm.nih.gov/pubmed/15906300)</p> |
| 113223 | DTI | <p>Diffusion Tensor Imaging</p> <p>Reference: Winston GP. The physical and biological basis of quantitative parameters derived from diffusion MRI. Quantitative Imaging in Medicine and Surgery. 2012;2(4) :254-265. doi:10.3978/j.issn.2223-4292.2012.12.05:10.3978/j.issn.2223-4292.2012.12.05. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3533595/)</p> |
| 113224 | DSI | <p>Diffusion Spectrum Imaging</p> <p>Reference: Wedeen VJ, Wang RP, Schmahmann JD, Benner T, Tseng WY, Dai G, Pandya DN, Hagmann P, D'Arceuil H, de Crespigny AJ. Diffusion spectrum magnetic resonance imaging (DSI) tractography of crossing fibers. Neuroimage. 2008 Jul 15;41(4) :1267-77. doi:10.1016/j.neuroimage.2008.03.036:10.1016/j.neuroimage.2008.03.036. (http://www.ncbi.nlm.nih.gov/pubmed/18495497)</p> <p>Reference: Hagmann P, Jonasson L, Maeder P, Thiran JP, Wedeen VJ, Meuli R. Understanding diffusion MR imaging techniques: from scalar diffusion-weighted imaging to diffusion tensor imaging and beyond. Radiographics.2006 Oct;26 Suppl 1:S205-23. (http://www.ncbi.nlm.nih.gov/pubmed/17050517)</p> |

| Code Value | Code Meaning | Definition |
|------------|------------------|--|
| 113225 | LSDI | Line Scan Diffusion Imaging sequence Reference: Gudbjartsson H, Maier SE, Mulkern RV, Mórocz IA, Patz S, Jolesz FA. Line scan diffusion imaging. Magn Reson Med.1996 Oct;36(4) :509-19. (http://www.ncbi.nlm.nih.gov/pubmed/8892201) |
| 113226 | Single Shot EPI | An Echo Planar Imaging sequence in which the entire range of phase encoding steps is acquired in one repetition. Reference: Turner R, Le Bihan D, Chesnick AS. Echo-planar imaging of diffusion and perfusion. Magn Reson Med.1991 Jun;19(2) :247-53. (http://www.ncbi.nlm.nih.gov/pubmed/1881311) |
| 113227 | Multi Shot EPI | An Echo Planar Imaging sequence in which separate parts of the range of phase encoding steps are acquired in multiple repetitions. Reference: Robson MD, Anderson AW, Gore JC. Diffusion-weighted multiple shot echo planar imaging of humans without navigation. Magn Reson Med.1997 Jul;38(1) :82-8. (http://www.ncbi.nlm.nih.gov/pubmed/9211383) |
| 113228 | Parallel Imaging | A imaging sequence that uses a subset of k-space data from an array of receiver coils, e.g., Sensitivity Encoding. Reference: Pruessmann KP, Weiger M, Scheidegger MB, Boesiger P. SENSE: sensitivity encoding for fast MRI. Magn Reson Med.1999 Nov;42(5) :952-62. (http://www.ncbi.nlm.nih.gov/pubmed/10542355) Reference: Deshmane A, Gulani V, Griswold MA, Seiberlich N. Parallel MR imaging. J Magn Reson Imaging. 2012 Jul;36(1) :55-72. (http://www.ncbi.nlm.nih.gov/pubmed/22696125) |
| 113231 | Single Tensor | Modeling anisotropic diffusion in a volume with a tensor following a Gaussian distribution (six degrees of freedom) Reference: Basser PJ, Mattiello J, LeBihan D. Estimation of the effective self-diffusion tensor from the NMR spin echo. J Magn Reson B.1994 Mar;103(3) :247-54. (http://www.ncbi.nlm.nih.gov/pubmed/8019776) Reference: Hagmann P1, Jonasson L, Maeder P, Thiran JP, Wedeen VJ, Meuli R. Understanding diffusion MR imaging techniques: from scalar diffusion-weighted imaging to diffusion tensor imaging and beyond. Radiographics.2006 Oct;26 Suppl 1:S205-23. (http://www.ncbi.nlm.nih.gov/pubmed/17050517) |
| 113232 | Multi Tensor | Modeling anisotropic diffusion in a volume by fitting of multiple tensors Reference: Ozarslan E, Mareci TH. Generalized diffusion tensor imaging and analytical relationships between diffusion tensor imaging and high angular resolution diffusion imaging. Magn Reson Med.2003 Nov;50(5) :955-65. (http://www.ncbi.nlm.nih.gov/pubmed/14587006) Reference: Pasternak O, Assaf Y, Intrator N, Sochen N. Variational multiple-tensor fitting of fiber-ambiguous diffusion-weighted magnetic resonance imaging voxels. Magn Reson Imaging.2008 Oct;26(8) :1133-44. doi:10.1016/j.mri.2008.01.006 :10.1016/j.mri.2008.01.006 . (http://www.ncbi.nlm.nih.gov/pubmed/18524529) |

| Code Value | Code Meaning | Definition |
|------------|--------------------------------|---|
| 113233 | Model Free | <p>Reconstruction of anisotropic diffusion in a volume without imposing an underlying statistical model (data-driven approach)</p> <p>Reference: Wedeen VJ, Hagmann P, Tseng WY, Reese TG, Weisskoff RM. Mapping complex tissue architecture with diffusion spectrum magnetic resonance imaging. Magn Reson Med.2005 Dec;54(6) :1377-86. (http://www.ncbi.nlm.nih.gov/pubmed/16247738)</p> <p>Reference: Hagmann P, Jonasson L, Maeder P, Thiran JP, Wedeen VJ, Meuli R. Understanding diffusion MR imaging techniques: from scalar diffusion-weighted imaging to diffusion tensor imaging and beyond. Radiographics.2006 Oct;26 Suppl 1:S205-23. (http://www.ncbi.nlm.nih.gov/pubmed/17050517)</p> |
| 113234 | CHARMED | <p>Composite Hindered and Restricted Model of Diffusion</p> <p>Reference: Assaf Y, Basser PJ. Composite hindered and restricted model of diffusion (CHARMED) MR imaging of the human brain. Neuroimage.2005 Aug 1;27(1) :48-58. (http://www.ncbi.nlm.nih.gov/pubmed/17050517)</p> |
| 113236 | DOT | <p>Diffusion Orientation Transform</p> <p>Reference: Ozarslan E, Shepherd TM, Vemuri BC, Blackband SJ, Mareci TH. Resolution of complex tissue microarchitecture using the diffusion orientation transform (DOT). Neuroimage. 2006 Jul 1;31(3) :1086-103. Epub 2006 Mar 20. (http://www.ncbi.nlm.nih.gov/pubmed/16546404)</p> |
| 113237 | PAS | <p>Persistent Angular Structure</p> <p>Reference: Jansons KM, Alexander DC. Persistent Angular Structure: new insights from diffusion MRI data. Dummy version. Inf Process Med Imaging.2003 Jul;18:672-83. (http://www.ncbi.nlm.nih.gov/pubmed/15344497)</p> |
| 113238 | Spherical Deconvolution | <p>A method to estimate the distribution of fiber orientations by deconvolution of the diffusion-weighted signal attenuation measured over the surface of a sphere expressed as the convolution over the sphere of a response function.</p> <p>Reference: Tournier JD, Calamante F, Gadian DG, Connelly A. Direct estimation of the fiber orientation density function from diffusion-weighted MRI data using spherical deconvolution. NeuroImage. 2004 Nov;23(3) :1176-85. (http://www.ncbi.nlm.nih.gov/pubmed/15528117)</p> |
| 113240 | Source image diffusion b-value | The diffusion sensitization factor (b value) used during acquisition of the source image used for a diffusion model. |
| 113241 | Model fitting method | The method used to fit a set of data to a mathematical model. E.g., least squares. |

| Code Value | Code Meaning | Definition | |
|------------|----------------------------------|---|---|
| 113250 | Mono-exponential diffusion model | Mono-exponential (single compartment) Apparent Diffusion Coefficient (ADC) model. | Bur PE. diffu in br six-p Assi Oct; journ artic year artic Toiv Pes PJ, Mat diffu pros valu Corr scor regi Mag Med 2014 dx.d mrm |

| Code Value | Code Meaning | Definition |
|------------|---------------------------------------|---|
| 113251 | Bi-exponential (IVIM) diffusion model | Bi-exponential intravoxel incoherent motion (IVIM) model. |
| 113252 | Kurtosis diffusion model | . |

| Code Value | Code Meaning | Definition | |
|------------|---------------------------------------|---|---|
| 113253 | Gamma distribution model | . | Osh Mult diffu usin mod 2014 dx.d mrm |
| 113254 | Stretched exponential diffusion model | . | Ben Ben Hyd cont corti with mod 2003 dx.d mrm Toiv Pes PJ, Math diffu pros valu Corr scor regio Mag Med 2014 dx.d mrm |
| 113255 | Truncated Gaussian diffusion model | . | Yab Acke mod MR Res 2003 dx.d mrm |
| 113260 | Log of ratio of two samples | Model fitting by using the log of the ratio of the two samples. | Bur PE. diffu in br six-p Assi Oct; jour artic year artic |

| Code Value | Code Meaning | Definition |
|------------|---------------------------------------|---|
| 113261 | Least squares fit of multiple samples | Model fitting by least squares method from more than two samples. |
| 113265 | Levenberg–Marquardt | Model fitting by Levenberg–Marquardt method. |
| 113266 | Trust-Region | Model fitting by Trust-Region method. |
| 113267 | Fixed-Dp | Model fitting by Fixed-Dp method. |
| 113268 | Segmented-Unconstrained | Model fitting by Segmented-Unconstrained method. |

| Code Value | Code Meaning | Definition | |
|------------|--------------------------------|--|---|
| 113269 | Segmented-Constrained | Model fitting by Segmented-Constrained method. | Barb Froe Impa algo fittin MRI orga in M 2016 dx.d mrm |
| 113270 | Bayesian-Probability | Model fitting by Bayesian-Probability method. | Barb Froe Impa algo fittin MRI orga in M 2016 dx.d mrm Neil use thec exp exa inco exp Res 199 dx.d mrm |
| ... | ... | ... | ... |
| 113285 | Voxelwise selection of b-value | Diffusion modeling by voxelwise selection of b-values. | Gati Mar Sch diffu coef voxe diffu An a SNR shin of M Imag http jmri. |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 113288 | Volume Ratio | Coefficient reflecting the anisotropy of the tissues, derived from a diffusion weighted MR image. It represents the volume of an ellipsoid whose semimajor axes are the three eigenvalues of the diffusion tensor divided by the volume of a sphere whose radius is the mean diffusivity. |
| 113289 | Diffusion Coefficient | The pure diffusion coefficient, i.e., one that is not affected by T2 contrast effects. |
| 113290 | Mono-exponential Apparent Diffusion Coefficient | The diffusion coefficient of a mono-exponential diffusion model (ADC_m). |

| Code Value | Code Meaning | Definition | |
|------------|----------------------------|---|--|
| 113291 | Slow Diffusion Coefficient | The slow diffusion coefficient (D_s) of a bi-exponential intravoxel incoherent motion (IVIM) diffusion model. | Meri Per M, T meth inco pros pros inter and Mag Med dx.d mrm Toiv Pese PJ, Mat diffu pros valu Corr scor regio Mag Med 2015 dx.d mrm Barb Froe Imp algo fittin MRI orga in M 2016 dx.d mrm |

| Code Value | Code Meaning | Definition |
|------------|----------------------------|---|
| 113292 | Fast Diffusion Coefficient | The fast diffusion coefficient (D_f) of a bi-exponential intravoxel incoherent motion (IVIM) diffusion model. |

| Code Value | Code Meaning | Definition | |
|------------|-------------------------------------|---|--|
| 113293 | Fast Diffusion Coefficient Fraction | The fast diffusion fraction of a bi-exponential intravoxel incoherent motion (IVIM) diffusion model.. | <p>Meri Pere M, T meth inco pros inter and Mag Med dx.d mrm</p> <p>Toiv Pese PJ, Math diffu pros valu Corr scor regio Mag Med 2015 dx.d mrm</p> <p>Barb Froe Imp algo fittin MRI orga in M 2016 dx.d mrm</p> |
| 113294 | Kurtosis Diffusion Coefficient | The diffusion coefficient of a kurtosis diffusion model (ADC_k). | <p>Toiv Pese PJ, Math diffu pros valu Corr scor regio Mag Med 2015 dx.d mrm</p> |

| Code Value | Code Meaning | Definition |
|------------|------------------------------------|---|
| 113295 | Gamma Distribution Scale Parameter | The scale (theta) parameter of a gamma distribution diffusion model. |
| 113296 | Gamma Distribution Shape Parameter | The shape (k) parameter of a gamma distribution diffusion model. |
| 113297 | Gamma Distribution Mode | The mode (maximum value of probability density function) of a gamma distribution diffusion model. Computed as $(k-1)*\theta$, for $k \geq 1$. |
| 113298 | Distributed Diffusion Coefficient | The distributed diffusion coefficient of a stretched-exponential diffusion model (ADC_s). |

| Code Value | Code Meaning | Definition | |
|------------|--|--|--|
| 113299 | Anomalous Exponent Parameter | The anomalous exponent (stretching, alpha) parameter of a stretched-exponential diffusion model. This describes the deviation of the signal attenuation from mono-exponential behavior | Ben Ben Hyd cont corti with mod 2003 dx.d mrm |
| 113500 | Radiopharmaceutical Radiation Dose Report | The procedure report is a Radiopharmaceutical Radiation Dose report | Toiv Pes PJ, Mat diffu pros valu Corr scon regio Mag Med 2013 dx.d mrm |
| 113502 | Radiopharmaceutical Administration | Information pertaining to the administration of a radiopharmaceutical | |
| 113503 | Radiopharmaceutical Administration Event UID | Unique identification of a single radiopharmaceutical administration event. | |
| 113505 | Intravenous Extravasation Symptoms | Initial signs or symptoms of extravasation | |
| 113506 | Estimated Extravasation Activity | The estimated percentage of administered activity lost at the injection site. The estimation includes extravasation, paravenous administration and leakage at the injection site. | |
| 113507 | Administered activity | The calculated activity at the Radiopharmaceutical Start Time when the radiopharmaceutical is administered to the patient. The residual activity (i.e., radiopharmaceutical not administered) , if measured, is reflected in the calculated value. The estimated extravasation is not reflected in the calculated value. | |
| 113508 | Pre-Administration Measured Activity | Radioactivity measurement of radiopharmaceutical before or during the administration. | |
| 113509 | Post-Administration Measured Activity | Radioactivity measurement of radiopharmaceutical after the administration. | |
| 113510 | Drug Product Identifier | Registered drug establishment code for product, coding scheme example is NDC or RxNorm | |
| 113511 | Radiopharmaceutical Dispense Unit Identifier | The human readable identification of the specific radiopharmaceutical dispensed quantity or dose ("dose" as unit of medication delivery, not radiation dose measure) to be administered to the patient. | |
| 113512 | Radiopharmaceutical Lot Identifier | Identifies the vial, batch or lot number from which the individual dispense radiopharmaceutical quantity (dose) is produced. The Radiopharmaceutical Dispense Unit Identifier records the identification for each individual dose. | |

| Code Value | Code Meaning | Definition |
|------------|------------------------------------|--|
| 113513 | Reagent Vial Identifier | Identifies the lot or unit serial number for the reagent component for the radiopharmaceutical. |
| 113514 | Radionuclide Vial Identifier | Identifies the lot or unit serial number for the radionuclide component for the radiopharmaceutical. |
| 113516 | Prescription Identifier | Administered Product's Prescription Number |
| 113517 | Organ Dose Information | Information pertaining to the estimated absorbed radiation dose to an organ. |
| 113518 | Organ Dose | The absorbed radiation dose to organ |
| 113520 | MIRD Pamphlet 1 | Reference authority MIRD Pamphlet No.1 (rev) ,Society of Nuclear Medicine, 1976 |
| 113521 | ICRP Publication 53 | Reference authority ICRP, 1988. Radiation Dose to Patients from Radiopharmaceuticals. ICRP Publication 53. Ann. ICRP 18 (1-4). |
| 113522 | ICRP Publication 80 | Reference authority ICRP, 1998. Radiation Dose to Patients from Radiopharmaceuticals (Addendum to ICRP Publication 53). ICRP Publication 80. Ann. ICRP 28 (3). |
| 113523 | ICRP Publication 106 | Reference authority ICRP, 2008. Radiation Dose to Patients from Radiopharmaceuticals - Addendum 3 to ICRP Publication 53. ICRP Publication 106. Ann. ICRP 38 (1-2). |
| 113526 | MIRDOSE | Reference authority Stabin MG, Sparks RB, Crowe E (1994) MIRDOSE: personal computer software for internal dose assessment in nuclear medicine [Computer program] |
| 113527 | OLINDA-EXM | Reference authority Stabin MG, Sparks RB, Crowe E (2005) OLINDA/EXM: The Second-Generation Personal Computer Software for Internal Dose Assessment in Nuclear Medicine [Computer program] |
| 113528 | Package Insert | Reference authority The reported organ dose is based on radiopharmaceutical's package insert. |
| 113529 | Institutionally Approved Estimates | Reference authority The reported organ dose is based on Institutionally approved estimates from the Radioactive Drug Research Committee (RDRC) of the institution itself. |
| 113530 | Investigational New Drug | Reference authority The reported organ dose is based on an Investigation new drug. |
| 113540 | Activity Measurement Device | The type of device that performed the activity measurement. |
| 113541 | Dose Calibrator | The device that measures the radiation activity of the radiopharmaceutical |
| 113542 | Infusion System | Radiopharmaceutical Infusion System |
| 113543 | Generator | Radioisotope Generator |
| 113550 | Fasting Duration | The number hours the patient has gone without food. |
| 113551 | Hydration Volume | The amount of fluids the patient has consumed before the procedure. |
| 113552 | Recent Physical Activity | A description of physical activity the patient performed before the start of the procedure, such as that which may affect imaging agent biodistribution. |
| 113560 | Acute unilateral renal blockage | Blockage in one of the tubes (ureters) that drain urine from the kidneys |

| Code Value | Code Meaning | Definition | |
|------------|--|---|--|
| 113561 | Low Thyroid Uptake | 5% or less Thyroid Uptake of Iodine | |
| 113562 | High Thyroid Uptake | 25% or higher Thyroid Uptake of Iodine | |
| 113563 | Severely Jaundiced | The patient exhibits symptoms severe of jaundice and/or has a Bilirubin >10 mg/dL. | |
| 113568 | Extravasation visible in image | Extravasation or paravenous administration of the product is visible in the images. | |
| 113570 | Cockcroft-Gault Formula estimation of GFR | The measurement method of the Glomerular Filtration Rate is Cockcroft-Gault Formula | |
| 113571 | CKD-EPI Formula estimation of GFR | The measurement method of the Glomerular Filtration Rate is CKD-EPI Formula | |
| 113572 | Glomerular Filtration Rate (MDRD) | The measurement method of the Glomerular Filtration Rate is MDRD | |
| 113573 | Glomerular Filtration Rate non-black (MDRD) | The measurement method of the Glomerular Filtration Rate is non-black MDRD | |
| 113574 | Glomerular Filtration Rate black (MDRD) | The measurement method of the Glomerular Filtration Rate is black (MDRD) | |
| 113575 | Glomerular Filtration Rate female (MDRD) | The measurement method of the Glomerular Filtration Rate is female (MDRD) | |
| 113576 | Glomerular Filtration Rate Cystatin-based formula | The measurement method of the Glomerular Filtration Rate is Cystatin-based formula | |
| 113577 | Glomerular Filtration Rate Creatinine-based formula (Schwartz) | The measurement method of the Glomerular Filtration Rate is Creatinine-based formula (Schwartz) | |
| 113601 | Small: < 32.0 cm lateral thickness | Small body thickness for calcium scoring adjustment. Lateral thickness is measured from skin-to-skin, at the level of the proximal ascending aorta, from an A/P localizer image. | |
| 113602 | Medium: 32.0-38.0 cm lateral thickness | Medium body thickness for calcium scoring adjustment. Lateral thickness is measured from skin-to-skin, at the level of the proximal ascending aorta, from an A/P localizer image. | |
| 113603 | Large: > 38.0 cm lateral thickness | Large body thickness for calcium scoring adjustment. Lateral thickness is measured from skin-to-skin, at the level of the proximal ascending aorta, from an A/P localizer image. | |
| 113605 | Irradiation Event Label | A human-readable label identifying an irradiation event. | |
| 113606 | Label Type | The type of a human-readable label. | |
| 113607 | Series Number | A number that identifies a Series. Corresponds to (0020,0011) in PS3.3. | |
| 113608 | Acquisition Number | A number that identifies an Acquisition. Corresponds to (0020,0012) in PS3.3. | |
| 113609 | Instance Number | A number that identifies an Instance. Corresponds to (0020,0013) in PS3.3. | |
| 113611 | Stationary Acquisition | Acquisition where the X-Ray source does not move in relation to the patient. | |
| 113612 | Stepping Acquisition | Acquisition where the X-Ray source moves laterally in relation to the patient. | |
| 113613 | Rotational Acquisition | Acquisition where the X-Ray source moves angularly in relation to the patient. | |
| 113620 | Plane A | Primary plane of a Biplane acquisition equipment. | |
| 113621 | Plane B | Secondary plane of a Biplane acquisition equipment. | |
| 113622 | Single Plane | Single plane acquisition equipment. | |
| 113630 | Continuous | Continuous X-Ray radiation is applied during an irradiation event. | |
| 113631 | Pulsed | Pulsed X-Ray radiation is applied during an irradiation event. | |
| 113650 | Strip filter | Filter with uniform thickness. | |
| 113651 | Wedge filter | Filter with variation in thickness from one edge to the opposite edge. | |
| 113652 | Butterfly filter | Filter with two triangular sections. | |
| 113653 | Flat filter | Filter with uniform thickness that is for spectral filtering only. E.g., filter out low energy portion of the X-Ray that would only contribute to skin dose, but not to image. | |
| 113661 | Outline of lobulations | A polyline defining the outline of a lobulated finding. | |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 113662 | Inner limits of fuzzy margin | A polyline defining the inner limits of a finding with fuzzy margin. |
| 113663 | Outer limits of fuzzy margin | A polyline defining the outer limits of a finding with fuzzy margin. |
| 113664 | Outline of spiculations | A polyline defining the outline of the spiculations of a finding. |
| 113665 | Linear spiculation | A polyline segment graphically indicating the location and direction of a spiculation of a finding. |
| 113666 | Pixelated spiculations | A collection of points indicating the pixel locations of the spiculations of a finding. |
| 113669 | Orthogonal location arc | Connected line segments indicating the center of location of a finding on an orthogonal view. |
| 113670 | Orthogonal location arc inner margin | Connected line segments indicating the inner margin of the location of a finding on an orthogonal view. |
| 113671 | Orthogonal location arc outer margin | Connected line segments indicating the outer location of a finding on an orthogonal view. |
| 113680 | Quality Control Intent | This procedure is intended to gather data that is used for calibration or other quality control purposes. |
| 113681 | Phantom | An artificial subject of an imaging study. |
| 113682 | ACR Accreditation Phantom - CT | A phantom acceptable for the ACR Computed Tomography Accreditation program. |
| 113683 | ACR Accreditation Phantom - MR | A phantom acceptable for the ACR Magnetic Resonance Imaging Accreditation program. |
| 113684 | ACR Accreditation Phantom - Mammography | A phantom acceptable for the ACR Mammography Accreditation program. |
| 113685 | ACR Accreditation Phantom - Stereotactic Breast Biopsy | A phantom acceptable for the ACR Stereotactic Breast Biopsy Accreditation program. |
| 113686 | ACR Accreditation Phantom - ECT | A phantom acceptable for the ACR SPECT Accreditation program (but not for PET). |
| 113687 | ACR Accreditation Phantom - PET | A phantom acceptable for the ACR PET Accreditation program (but not for SPECT). |
| 113688 | ACR Accreditation Phantom - ECT/PET | A SPECT phantom with a PET faceplate acceptable for both the ACR SPECT and PET Accreditation programs. |
| 113689 | ACR Accreditation Phantom - PET Faceplate | A PET faceplate (made to fit an existing flangeless or flanged ECT phantom) acceptable for the ACR PET Accreditation program. |
| 113690 | IEC Head Dosimetry Phantom | A phantom used for CTDI measurement in head modes according to IEC 60601-2-44, Ed.2.1 (Head 16 cm diameter Polymethyl methacrylate PMMA). |
| 113691 | IEC Body Dosimetry Phantom | A phantom used for CTDI measurement in body modes according to IEC 60601-2-44, Ed.2.1 (Body 32cm diameter Polymethyl methacrylate PMMA). |
| 113692 | NEMA XR21-2000 Phantom | A phantom in accordance with NEMA standard XR-21-2000. |
| 113701 | X-Ray Radiation Dose Report | X-Ray Radiation Dose Report. |
| 113702 | Accumulated X-Ray Dose Data | X-Ray dose data accumulated over multiple irradiation events. E.g., for a study or a performed procedure step. |
| 113704 | Projection X-Ray | Imaging using a point X-Ray source with a diverging beam projected onto a 2 dimensional detector. |
| 113705 | Scope of Accumulation | Entity over which dose accumulation values are integrated. |
| 113706 | Irradiation Event X-Ray Data | X-Ray dose data for a single Irradiation Event. |
| 113710 | Niobium or Niobium compound | Material containing Niobium or a Niobium compound |
| 113711 | Europium or Europium compound | Material containing Europium or a Europium compound |
| 113720 | Calibration Protocol | Describes the method used to derive the calibration factor. |

| Code Value | Code Meaning | Definition | |
|------------|-------------------------------------|--|-------------------------------|
| 113721 | Irradiation Event Type | Denotes the type of irradiation event recorded. | |
| 113722 | Dose Area Product Total | Total calculated Dose Area Product (in the scope of the including report). | |
| 113723 | Calibration DateTime | Last calibration DateTime for the integrated dose meter or dose calculation. | |
| 113724 | Calibration Responsible Party | Individual or organization responsible for calibration. | |
| 113725 | Dose (RP) Total | Total Dose related to Reference Point (RP). (in the scope of the including report). | |
| 113726 | Fluoro Dose Area Product Total | Total calculated Dose Area Product applied in Fluoroscopy Modes (in the scope of the including report). | |
| 113727 | Acquisition Dose Area Product Total | Total calculated Dose Area Product applied in Acquisition Modes (in the scope of the including report). | |
| 113728 | Fluoro Dose (RP) Total | Dose applied in Fluoroscopy Modes, related to Reference Point (RP). (in the scope of the including report). | |
| 113729 | Acquisition Dose (RP) Total | Dose applied in Acquisition Modes, related to Reference Point (RP). (in the scope of the including report). | |
| 113730 | Total Fluoro Time | Total accumulated clock time of Fluoroscopy in the scope of the including report (i.e., the sum of the Irradiation Duration values for accumulated fluoroscopy irradiation events). | |
| 113731 | Total Number of Radiographic Frames | Accumulated Count of exposure pulses (single or multi-frame encoded) created from irradiation events performed with high dose (acquisition). | |
| 113732 | Fluoro Mode | Mode of application of X-Rays during Fluoroscopy. | |
| 113733 | KVP | Applied X-Ray Tube voltage at peak of X-Ray generation, in kilovolts; Mean value if measured over multiple peaks (pulses). | |
| 113734 | X-Ray Tube Current | Mean value of applied Tube Current. | |
| 113735 | <i>Exposure Time</i> | <i>Cumulative time the patient has received X-Ray exposure during the irradiation event</i> | <i>Reti (113 Time</i> |
| 113736 | Exposure | Mean value of X-Ray Current Time product. | |
| 113737 | Distance Source to Reference Point | Distance to the Reference Point (RP) defined according to IEC 60601-2-43 or equipment defined. | |
| 113738 | Dose (RP) | Dose applied at the Reference Point (RP). | |
| 113739 | Positioner Primary End Angle | Positioner Primary Angle at the end of an irradiation event. For further definition see (112011, DCM, "Positioner Primary Angle"). | |
| 113740 | Positioner Secondary End Angle | Positioner Secondary Angle at the end of an irradiation event. For further definition see (112012, DCM, "Positioner Secondary Angle"). | |
| 113742 | Irradiation Duration | Clock time from the start of loading time of the first pulse until the loading time trailing edge of the final pulse in the same irradiation event. Note Loading time is defined in IEC 60601-1-3:2008, 3.37, and described in IEC 60601-2-54:2009, 203.4.101.3. | |
| 113743 | Patient Orientation | Orientation of the Patient with respect to Gravity. | |
| 113744 | Patient Orientation Modifier | Enhances or modifies the Patient orientation specified in Patient Orientation. | |
| 113745 | Patient Table Relationship | Orientation of the Patient with respect to the Head of the Table. | |
| 113748 | Distance Source to Isocenter | Distance from the X-Ray Source to the Equipment C-Arm Isocenter.(Center of Rotation). | |
| 113750 | Distance Source to Detector | Measured or calculated distance from the X-Ray source to the detector plane in the center of the beam. | |
| 113751 | Table Longitudinal Position | Table Longitudinal Position with respect to an arbitrary chosen reference by the equipment. Table motion towards LAO is positive assuming that the patient is positioned supine and its head is in normal position. | |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 113752 | Table Lateral Position | Table Lateral Position with respect to an arbitrary chosen reference by the equipment. Table motion towards CRA is positive assuming that the patient is positioned supine and its head is in normal position. |
| 113753 | Table Height Position | Table Height Position with respect to an arbitrary chosen reference by the equipment in (mm). Table motion downwards is positive. |
| 113754 | Table Head Tilt Angle | Angle of the head-feet axis of the table in degrees relative to the horizontal plane. Positive values indicate that the head of the table is upwards. |
| 113755 | Table Horizontal Rotation Angle | Rotation of the table in the horizontal plane (clockwise when looking from above the table). |
| 113756 | Table Cradle Tilt Angle | Angle of the left-right axis of the table in degrees relative to the horizontal plane. Positive values indicate that the left of the table is upwards. |
| 113757 | X-Ray Filter Material | X-Ray absorbing material used in the filter. |
| 113758 | X-Ray Filter Thickness Minimum | The minimum thickness of the X-Ray absorbing material used in the filters. |
| 113759 | Table Longitudinal End Position | Table Longitudinal Position at the end of an irradiation event; see (113751, DCM, "Table Longitudinal Position"). |
| 113760 | Table Lateral End Position | Table Lateral Position at the end of an irradiation event; see (113752, DCM, "Table Lateral Position"). |
| 113761 | Table Height End Position | Table Height Position at the end of an irradiation event; see (113753, DCM, "Table Height Position"). |
| 113763 | Calibration Uncertainty | Uncertainty of the 'actual' value. |
| 113764 | Acquisition Plane | Identification of Acquisition Plane with Biplane systems. |
| 113766 | Focal Spot Size | Nominal Size of Focal Spot of X-Ray Tube. |
| 113767 | Average X-Ray Tube Current | Average X-Ray Tube Current averaged over time for pulse or for continuous Fluoroscopy. |
| 113768 | Number of Pulses | Number of pulses applied by X-Ray systems during an irradiation event (acquisition run or pulsed fluoro). |
| 113769 | Irradiation Event UID | Unique identification of a single irradiation event. |
| 113770 | Column Angulation | Angle of the X-Ray beam in degree relative to an orthogonal axis to the detector plane. |
| 113771 | X-Ray Filters | Devices used to modify the energy or energy distribution of X-Rays. |
| 113772 | X-Ray Filter Type | Type of filter(s) inserted into the X-Ray beam. E.g., wedges. |
| 113773 | X-Ray Filter Thickness Maximum | The maximum thickness of the X-Ray absorbing material used in the filters. |
| 113780 | Reference Point Definition | System provided definition of the Reference Point used for Dose calculations. |
| 113788 | Collimated Field Height | Distance between the collimator blades in pixel column direction as projected at the detector plane. |
| 113789 | Collimated Field Width | Distance between the collimator blades in pixel row direction as projected at the detector plane. |
| 113790 | Collimated Field Area | Collimated field area at image receptor. Area for compatibility with IEC 60601-2-43. |
| 113791 | Pulse Rate | Pulse rate applied by equipment during Fluoroscopy. |
| 113792 | Distance Source to Table Plane | Measured or calculated distance from the X-Ray source to the table plane in the center of the beam. |
| 113793 | Pulse Width | (Average) X-Ray pulse width. |
| 113794 | Dose Measurement Device | Calibrated device to perform dose measurements. |
| 113795 | Acquired Image | Image acquired during a specified event. |
| 113800 | DLP to E conversion via MC computation | Effective Dose evaluation from the product of Dose Length Product (DLP) and the Effective Dose Conversion Factor (E/DLP in units of mSv/mGy-cm), where the ratio is derived by means of Monte Carlo computations. |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 113801 | CTDI _{freeair} to E conversion via MC computation | Effective Dose evaluation from the product of the Mean CTDI _{freeair} and the ratio E/CTDI _{freeair} (mSv/mGy), where the ratio is derived by means of Monte Carlo computations. |
| 113802 | DLP to E conversion via measurement | Effective Dose evaluation from the product of Dose Length Product (DLP) and the Effective Dose Conversion Factor (E/DLP in units of mSv/mGy-cm), where the ratio is derived by means of dosimetric measurements with an anthropomorphic phantom. |
| 113803 | CTDI _{freeair} to E conversion via measurement | Effective Dose evaluation from the product of the Mean CTDI _{freeair} and the ratio E/CTDI _{freeair} (mSv/mGy), where the ratio is derived by means of dosimetric measurements with an anthropomorphic phantom. |
| 113804 | Sequenced Acquisition | The CT acquisition was performed by acquiring single or multi detector data while rotating the source about the gantry while the table is not moving. Additional slices are acquired by incrementing the table position and again rotating the source about the gantry while the table is not moving. |
| 113805 | Constant Angle Acquisition | The CT acquisition was performed by holding the source at a constant angle and moving the table to obtain a projection image. E.g., localizer. |
| 113806 | Stationary Acquisition | The CT acquisition was performed by holding the table at a constant position and acquiring multiple slices over time at the same location. |
| 113807 | Free Acquisition | The CT acquisition was performed while rotating the source about the gantry while the table movement is under direct control of a human operator or under the control of an analysis application. E.g., fluoro. |
| 113808 | ICRP Pub 60 | Reference authority 1990 Recommendations of the International Commission on Radiological Protection (ICRP Publication 60, published as the Annals of the ICRP Vol. 21, No. 1-3, Pergamon Press, 1991). |
| 113809 | Start of X-Ray Irradiation | Start DateTime of the first X-Ray Irradiation Event of the accumulation within a Study. |
| 113810 | End of X-Ray Irradiation | End DateTime of the last X-Ray Irradiation Event of the accumulation within a Study. |
| 113811 | CT Accumulated Dose Data | X-Ray dose accumulated over multiple CT irradiation events. E.g., for a study or a performed procedure step. |
| 113812 | Total Number of Irradiation Events | Total number of events during the defined scope of accumulation. |
| 113813 | CT Dose Length Product Total | The total dose length product defined scope of accumulation. |
| 113814 | CT Effective Dose Total | The total Effective Dose at the defined scope of accumulation. |
| 113815 | Patient Model | Identification of the reference-patient model used when Effective Dose is evaluated via Monte Carlo calculations or from a Dose Length Product conversion factor based on Monte Carlo calculations. |
| 113816 | Condition Effective Dose measured | References the physical phantom and the type of dosimeter used when measurements are done to establish Effective Dose Conversion Factors (E/DLP) or ratios E/CTDI _{freeair} . |
| 113817 | Effective Dose Phantom Type | Type of Effective Dose phantom used. |
| 113818 | Dosimeter Type | Type of dosimeter used. |
| 113819 | CT Acquisition | General description of the CT Irradiation event. |
| 113820 | CT Acquisition Type | Method of the CT acquisition. |
| 113821 | X-Ray Filter Aluminum Equivalent | Thickness of an equivalent filter in mm in Aluminum. |
| 113822 | CT Acquisition Parameters | General description of the acquisition parameters. |
| 113823 | Number of X-Ray Sources | Number of X-Ray sources. |
| 113824 | Exposure Time | Total time the patient has received X-Ray exposure during the irradiation event. |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 113825 | Scanning Length | Length of the table travel during the entire tube loading, according to IEC 60601-2-44 Note Scanning Length might be longer than the programmed acquisition length (Length of Reconstructable Volume) |
| 113826 | Nominal Single Collimation Width | The value of the nominal width referenced to the location of the isocenter along the z axis of a single row of acquired data in mm. |
| 113827 | Nominal Total Collimation Width | The value of the nominal width referenced to the location of the isocenter along the z axis of the total collimation in mm over the area of active X-Ray detection. |
| 113828 | Pitch Factor | For Spiral scanning: Pitch Factor = (Table Feed per Rotation (mm)) / (Nominal Total Collimation Width (mm)) For Sequenced scanning: Pitch Factor = (Table Feed per single Sequenced scan (mm)) / (Nominal Total Collimation Width (mm)). |
| 113829 | CT Dose | General description of CT dose values. |
| 113830 | Mean CT DIvol | "Mean CT DIvol" refers to the average value of the CT DIvol associated with this acquisition. |
| 113831 | CT X-Ray Source Parameters | Identification, tube-potential, tube-current, and exposure-time parameters associated with an X-Ray source during an acquisition. |
| 113832 | Identification of the X-Ray Source | Identifies the particular X-Ray source (in a multi-source CT system) for which the set of X-Ray source parameter values is reported. |
| 113833 | Maximum X-Ray Tube Current | Maximum X-Ray tube current. |
| 113834 | Exposure Time per Rotation | The exposure time for one rotation of the source around the object in s. |
| 113835 | CTDIw Phantom Type | A label describing the type of phantom used for CTDIw measurement according to IEC 60601-2-44 (Head 16 cm diameter PMMA, Body 32 cm diameter PMMA). |
| 113836 | CTDI _{freeair} Calculation Factor | The CTDI _{freeair} Calculation Factor is the CTDI _{freeair} per mAs, expressed in units of mGy/mAs. The CTDI _{freeair} Calculation Factor may be used in one method calculating Dose. |
| 113837 | Mean CTDI _{freeair} | The average value of the free-in-air CTDI associated with this acquisition. |
| 113838 | DLP | Dose Length Product (DLP), expressed in mGy-cm, is an index characterizing the product of the CT DIvol and the length scanned. For Spiral scanning, $DLP = CT DIvol \times Scanning\ Length$. For Sequenced scanning, $DLP = CT DIvol \times Nominal\ Total\ Collimation\ Width \times Cumulative\ Exposure\ Time / Exposure\ Time\ per\ Rotation$. For Stationary and Free scanning, $DLP = CT DIvol \times Nominal\ Total\ Collimation\ Width$. |
| 113839 | Effective Dose | Effective dose in mSv. |
| 113840 | Effective Dose Conversion Factor | Effective Dose per DLP, reference value for Effective Dose calculation, expressed in mSv/mGY.cm. |
| 113841 | ICRP Pub 103 | Effective Dose Reference authority 2007 Recommendations of the International Commission on Radiological Protection (ICRP Publication 103, published as the Annals of the ICRP Vol. 37, No. 2-4, Elsevier, 2007). |
| 113842 | X-Ray Modulation Type | The type of exposure modulation used for the purpose of limiting the dose. |
| 113845 | Exposure Index | Measure of the detector response to radiation in the relevant image region of an image acquired with a digital X-Ray imaging system as defined in IEC 62494-1; see PS3.3 definition of Exposure Index Macro. |
| 113846 | Target Exposure Index | The target value used to calculate the Deviation Index as defined in IEC 62494-1; see PS3.3 definition of Exposure Index Macro. |
| 113847 | Deviation Index | A scaled representation of the accuracy of the Exposure Index compared to the Target Exposure Index as defined in IEC 62494-1; see PS3.3 definition of Exposure Index Macro. |

| Code Value | Code Meaning | Definition | |
|------------|--|--|--|
| 113850 | Irradiation Authorizing | The clinician responsible for determining that the irradiating procedure was appropriate for the indications. | |
| 113851 | Irradiation Administering | The person responsible for the administration of radiation. | |
| 113852 | Irradiation Event | An irradiation event is the loading of X-Ray equipment caused by a single continuous actuation of the equipment's irradiation switch, from the start of the loading time of the first pulse until the loading time trailing edge of the final pulse. Any automatic on-off switching of the irradiation source during the event is not treated as separate events, rather the event includes the time between start and stop of irradiation as triggered by the user. E.g., a pulsed fluoro X-Ray acquisition shall be treated as a single irradiation event. | |
| 113853 | Irradiation Event UID | Unique Identifier of an Irradiation Event. | |
| 113854 | Source of Dose Information | Method by which dose-related details of an Irradiation Event were obtained. | |
| 113855 | Total Acquisition Time | Total accumulated acquisition clock time in the scope of the including report (i.e., the sum of the Irradiation Duration values for accumulated acquisition irradiation events). | |
| 113856 | Automated Data Collection | Direct recording of data by a relevant system. | |
| 113857 | Manual Entry | Recording of data by a human operator, including manual transcription of electronic data. | |
| 113858 | MPPS Content | The data is taken from an MPPS SOP Instance. | |
| 113859 | Irradiating Device | A device exposing a patient to ionizing radiation. | |
| 113860 | 15cm from Isocenter toward Source | 15cm from the isocenter towards the X-Ray source; See IEC 60601-2-43. | |
| 113861 | 30cm in Front of Image Input Surface | 30cm in front (towards the tube) of the input surface of the image receptor; See FDA Federal Performance Standard for Diagnostic X-Ray Systems §1020.32(d) (3). | |
| 113862 | 1cm above Tabletop | 1cm above the patient tabletop or cradle; See FDA Federal Performance Standard for Diagnostic X-Ray Systems §1020.32(d) (3). | |
| 113863 | 30cm above Tabletop | 30cm above the patient tabletop or cradle; See FDA Federal Performance Standard for Diagnostic X-Ray Systems §1020.32(d) (3). | |
| 113864 | 15cm from Table Centerline | 15cm from the centerline of the X-Ray table and in the direction of the X-Ray source; See FDA Federal Performance Standard for Diagnostic X-Ray Systems §1020.32(d) (3). | |
| 113865 | Entrance exposure to a 4.2 cm breast thickness | Standard breast means a 4.2 centimeter (cm) thick compressed breast consisting of 50 percent glandular and 50 percent adipose tissue. See Department of Health and Human Services, Food and Drug Administration. Mammography quality standards; final rule. Federal Register. Oct. 28, 1997; 68(208):55852-55994; see 900.2(uu). | |
| 113866 | Copied From Image Attributes | The data is copied from information present in the image attributes. E.g., dose attributes such as CTDIvol (0018,9345). | |
| 113867 | Computed From Image Attributes | The data is computed from information present in the image attributes. E.g., by using dosimetry information for the specific irradiating device make and model, applied to technique information such as KVP and mAs. | |
| 113868 | Derived From Human-Readable Reports | The data is derived from human-readable reports. E.g., by natural language parsing of text reports, or optical character recognition from reports saved as images by the irradiating device. | |
| 113870 | Person Name | The name of a specific person. | |
| 113871 | Person ID | An identification number or code for a specific person. | |
| 113872 | Person ID Issuer | The organization that issued a Person ID. | |
| 113873 | Organization Name | The name of an organization. | |
| 113874 | Person Role in Organization | The role played by a person in an organization. | |
| 113875 | Person Role in Procedure | The role played by a person in a procedure. | |
| 113876 | Device Role in Procedure | The role played by a device in a procedure. | |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 113877 | Device Name | The name used to refer to a device; usually locally unique. |
| 113878 | Device Manufacturer | Manufacturer of a device. |
| 113879 | Device Model Name | Model Name of a device. |
| 113880 | Device Serial Number | Serial Number of a device. |
| 113890 | All Planes | All planes of a multi-plane acquisition equipment. |
| 113893 | Length of Reconstructable Volume | <p>The length from which images may be reconstructed (i.e., excluding any overranging performed in a spiral acquisition that is required for data interpolation).</p> <p>Value is distinct from (113825, DCM, "Scanning Length"), which is the actual length of the table travel during the entire tube loading, according to IEC 60601-2-44, and includes overranging. Also distinct from any actual Reconstructed Volume, which may depend on the slice thickness chosen for a particular reconstruction.</p> |
| 113895 | Top Z Location of Reconstructable Volume | The Z location that is the top (highest Z value) of the Reconstructable Volume. Specified as the Z component within the Patient Coordinate System defined by a specified Frame of Reference. |
| 113896 | Bottom Z Location of Reconstructable Volume | The Z location that is the bottom (lowest Z value) of the Reconstructable Volume. Specified as the Z component within the Patient Coordinate System defined by a specified Frame of Reference. |
| 113897 | Top Z Location of Scanning Length | The Z location that is the top (highest Z value) of the scanning length. Specified as the Z component within the Patient Coordinate System defined by a specified Frame of Reference. |
| 113898 | Bottom Z Location of Scanning Length | The Z location that is the bottom (lowest Z value) of the scanning length. Specified as the Z component within the Patient Coordinate System defined by a specified Frame of Reference. |
| 113899 | Exposed Range | <p>The range along the z axis of the total volume irradiated, per IEC 60601-2-44, Ed. 3, 203.115(b).</p> <p>The start and stop of loading corresponding to the outer edge of the full width half maximum of the free-in-air dose profile for the beam collimation used.</p> |
| 113900 | Dose Check Alert Details | Report section about cumulative dose alerts during an examination. |
| 113901 | DLP Alert Value Configured | Flag denoting whether a DLP Alert Value was configured. |
| 113902 | CTDIvol Alert Value Configured | Flag denoting whether a CTDIvol Alert Value was configured. |
| 113903 | DLP Alert Value | Cumulative Dose Length Product value configured to trigger an alert; see NEMA XR 25-2010 Dose Check Standard. |
| 113904 | CTDIvol Alert Value | Cumulative CTDIvol value configured to trigger an alert; see NEMA XR 25-2010 Dose Check Standard. |
| 113905 | Accumulated DLP Forward Estimate | A forward estimate of the accumulated DLP plus the estimated DLP for the next Protocol Element Group; see NEMA XR 25-2010 Dose Check Standard. |
| 113906 | Accumulated CTDIvol Forward Estimate | A forward estimate at a given location of the accumulated CTDIvol plus the estimated CTDIvol for the next Protocol Element Group; see NEMA XR 25-2010 Dose Check Standard. |
| 113907 | Reason for Proceeding | Reason provided for proceeding with a procedure that is projected to exceed a configured dose value. |
| 113908 | Dose Check Notification Details | Report section about dose notifications during a protocol element. |
| 113909 | DLP Notification Value Configured | Flag denoting whether a DLP Notification Value was configured. |
| 113910 | CTDIvol Notification Value Configured | Flag denoting whether a CTDIvol Notification Value was configured. |
| 113911 | DLP Notification Value | Dose Length Product value configured to trigger a notification for a given protocol element. |
| 113912 | CTDIvol Notification Value | CTDIvol value configured to trigger a notification for a given protocol element. |

| Code Value | Code Meaning | Definition | |
|------------|--|---|------------------------------|
| 113913 | DLP Forward Estimate | A forward estimate of the DLP for the next Protocol Element Group; see NEMA XR 25-2010 Dose Check Standard. | |
| 113914 | CTDIvol Forward Estimate | A forward estimate of the CTDIvol for the next Protocol Element Group; see NEMA XR 25-2010 Dose Check Standard. | |
| 113921 | Radiation Exposure | The amount of ionizing radiation to which the patient was exposed. | |
| 113922 | <i>Radioactive Substance Administered</i> | <i>Type, amount and route of radioactive substance administered.</i> | Reti (440 "Adm radi |
| 113923 | <i>Radiation Exposure and Protection Information</i> | <i>Exposure to ionizing radiation and associated preventive measures used to reduce the exposure of parts of the body like lead apron or eye, thyroid gland or gonad protection.</i> | Reti (735 Exp Info |
| 113930 | Size Specific Dose Estimation | The Size-Specific Dose Estimate is a patient dose estimate that takes into account the size of the patient, such as described in [AAPM Report 204] or [AAPM Report 220] by using linear dimensions measured on the patient or patient images or estimated from patient age. | |
| 113931 | Measured Lateral Dimension | The side-to-side (left to right) dimension of the body part being scanned (per [AAPM Report 204]). | |
| 113932 | Measured AP Dimension | The thickness of the body part being scanned, in the antero-posterior dimension (per [AAPM Report 204]). | |
| 113933 | Derived Effective Diameter | The diameter of the patient at a given location along the Z-axis of the patient, assuming that the patient has a circular cross-section (per [AAPM Report 204]). | |
| 113934 | AAPM 204 Lateral Dimension | The Size Specific Dose Estimation is computed using Table 1B (32cm phantom) or Table 2B (16cm phantom) of [AAPM Report 204]. | |
| 113935 | AAPM 204 AP Dimension | The Size Specific Dose Estimation is computed using Table 1C (32cm phantom) or Table 2C (16cm phantom) of [AAPM Report 204]. | |
| 113936 | AAPM 204 Sum of Lateral and AP Dimension | The Size Specific Dose Estimation is computed using Table 1A (32cm phantom) or Table 2A (16cm phantom) of [AAPM Report 204]. | |
| 113937 | AAPM 204 Effective Diameter Estimated From Patient Age | The Size Specific Dose Estimation is computed using Table 1D (32cm phantom) or Table 2D (16cm phantom) using an effective diameter estimated from the patient's age using Table 3 of [AAPM Report 204]. | |
| 113940 | System Calculated | Values calculated from other existing parameters. | |
| 113941 | In Detector Plane | A segmented region of the detector surface within the irradiated area (but might not be near the center of the detector). | |
| 113942 | X-Ray Reading Device | A device that creates digital images from X-Ray detectors (Direct, Indirect or Storage). | |
| 113943 | X-Ray Source Data Available | Parameters related to the X-Ray source (generator, tube, etc) are available to the recording application. | |
| 113944 | X-Ray Mechanical Data Available | Parameters related to the X-Ray Mechanical System (Stand, Table) are available to the recording application. | |
| 113945 | X-Ray Detector Data Available | Parameters related to the X-Ray Detector are available to the recording application. | |
| 113946 | Projection Eponymous Name | Describes the radiographic method of patient, tube and detector positioning to achieve a well described projection or view. | |
| 113947 | Detector Type | Type of Detector used to acquire data. E.g., Images. | |
| 113948 | Direct Detector | Detector that directly transforms the input signal to pixel values. | |
| 113949 | Indirect Detector | Detector that transforms an intermediate signal into pixel values. E.g., a scintillator-based detector. | |
| 113950 | Storage Detector | Storage detector that stores a signal that is later transformed by a reader into pixel values. E.g., a phosphor-based detector. | |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 113951 | Film | Film that is scanned to create pixel values. |
| 113952 | Table Mount | The cassette/detector is mounted in the patient table. |
| 113953 | Unmounted Detector | The cassette/detector is not mounted.. E.g., a cassette placed underneath the patient. |
| 113954 | Upright Stand Mount | The cassette/detector is mounted in an upright stand. |
| 113955 | C-Arm Mount | The cassette/detector is mounted on a c-arm. |
| 113956 | CR/DR Mechanical Configuration | Method of mounting or positioning a CR/DR cassette or detector. |
| 113957 | Fluoroscopy-Guided Projection Radiography System | An integrated projection radiography system capable of fluoroscopy. |
| 113958 | Integrated Projection Radiography System | A projection radiography system where the X-Ray detector, X-Ray Source and gantry components are integrated and the managing system is able to access details of each component. |
| 113959 | Cassette-based Projection Radiography System | A projection radiography system where the X-Ray detector, X-Ray Source and gantry components are not integrated. E.g., cassette-based CR and DR systems. |
| 113961 | Reconstruction Algorithm | Description of the algorithm used when reconstructing the image from the data acquired during the acquisition process. |
| 113962 | Filtered Back Projection | An algorithm for reconstructing an image from multiple projections by back-projecting the measured values along the line of the projection and filtering the result to reduce blurring. |
| 113963 | Iterative Reconstruction | An algorithm for reconstructing an image from multiple projections by starting with an assumed reconstructed image, computing projections from the image, comparing the original projection data and updating the reconstructed image based upon the difference between the calculated and the actual projections. |
| 113964 | At Surface of Patient | A point at the surface of the patient within the irradiated area where the X-Ray beam enters the patient (i.e. towards the tube). |
| 113970 | Procedure Step To This Point | The period of time from the start of a Procedure Step until the time point established by the context of the reference. |
| 113980 | Water Equivalent Diameter | The diameter of a cylinder of water having the same X-Ray attenuation as the patient for a specified reconstructed slice (e.g., as described in [AAPM Report 220]). |
| 113981 | Water Equivalent Diameter Representative Value | <p>The Size Specific Dose Estimation is computed using a single representative value of Water Equivalent Diameter.</p> <p>E.g., computed as per [AAPM Report 220] and used as the index into Table 1D (32cm phantom) or Table 2D (16cm phantom) of [AAPM Report 204] (i.e., as described in the Appendix of [AAPM Report 220]).</p> <p>The single value used may be a mean of the values across the entire scan range, or may be a value at a single location sufficiently representative of the body region.</p> |
| 113982 | Water Equivalent Diameter Integrated Across Scan Range | <p>The Size Specific Dose Estimation is computed using Water Equivalent Diameter values for a sample of slices across the entire scan range.</p> <p>E.g., computed as per [AAPM Report 220] and used as the index into Table 1D (32cm phantom) or Table 2D (16cm phantom) of [AAPM Report 204] (i.e., as described in the Appendix of [AAPM Report 220]).</p> |
| 113983 | Water Equivalent Diameter From Raw Data | <p>The Size Specific Dose Estimation is computed using Water Equivalent Diameter values derived from Raw Data rather than reconstructed slices.</p> <p>E.g., used as the index into Table 1D (32cm phantom) or Table 2D (16cm phantom) of [AAPM Report 204] (i.e., as described in the Appendix of [AAPM Report 220]).</p> |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 113984 | Water Equivalent Diameter From Localizer | The Size Specific Dose Estimation is computed using Water Equivalent Diameter values derived from a Localizer image. E.g., used as the index into Table 1D (32cm phantom) or Table 2D (16cm phantom) of [AAPM Report 204] (i.e., as described in the Appendix of [AAPM Report 220]). |
| 113985 | Series or Instance used for Water Equivalent Diameter estimation | Unique identifier of the Series or Instance(s) used for Water Equivalent Diameter estimation, whether it be a Series of reconstructed single slice images or one or more Enhanced Multi-frame images or a Raw Data Series or Instance. |
| 113986 | Z value of location of Water Equivalent Diameter estimation | The Z location used for Water Equivalent Diameter estimation at a single location whether it be computed using a reconstructed slice or Localizer or Raw Data. Specified as the Z component within the Patient Coordinate System defined by a specified Frame of Reference. |
| 113987 | AAPM 220 | A report describing methods of calculation of diameters of cylinders of water having the same X-Ray attenuation as reconstructed CT slices of patients described in [AAPM Report 220]. |
| 114000 | Not a number | Measurement not available: Not a number (per IEEE 754). |
| 114001 | Negative Infinity | Measurement not available: Negative Infinity (per IEEE 754). |
| 114002 | Positive Infinity | Measurement not available: Positive Infinity (per IEEE 754). |
| 114003 | Divide by zero | Measurement not available: Divide by zero (per IEEE 754). |
| 114004 | Underflow | Measurement not available: Underflow (per IEEE 754). |
| 114005 | Overflow | Measurement not available: Overflow (per IEEE 754). |
| 114006 | Measurement failure | Measurement not available: Measurement failure. |
| 114007 | Measurement not attempted | Measurement not available: Measurement not attempted. |
| 114008 | Calculation failure | Measurement not available: Calculation failure. |
| 114009 | Value out of range | Measurement not available: Value out of range. |
| 114010 | Value unknown | Measurement not available: Value unknown. |
| 114011 | Value indeterminate | Measurement not available: Value indeterminate. |
| 114201 | Time of flight | Measures the time-of-flight of a light signal between the camera and the subject for each point of the image. |
| 114202 | Interferometry | Interferometry is a family of techniques in which waves are superimposed in order to extract depth information about the scanned object. |
| 114203 | Laser scanning | Laser scanning describes the general method to sample or scan a surface using laser technology. |
| 114204 | Pattern projection | Projecting a narrow band of light onto a three-dimensionally shaped surface produces a line of illumination that appears distorted from other perspectives than that of the projector. It can be used for an exact geometric reconstruction of the surface shape. |
| 114205 | Shape from shading | A technique for estimating the surface normal of an object by observing that object under different lighting conditions. |
| 114206 | Shape from motion | A technique for estimating the surface normal of an object by observing that object under different motions. |
| 114207 | Confocal imaging | An optical imaging technique used to increase optical resolution and contrast of a micrograph by using point illumination and a spatial pinhole to eliminate out-of-focus light in specimens that are thicker than the focal plane. It enables the reconstruction of 3D structures from the obtained images. |
| 114208 | Point Cloud Algorithmic | Point cloud that was calculated by an algorithm. |
| 114209 | Turntable Scan Method | Scanning the object from different views by placing it on a rotating table. |
| 114210 | High resolution | Higher resolution with a longer acquisition time. |
| 114211 | Fast mode | Lower resolution with a shorter acquisition time. |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 114213 | Iterative Closest Point | An algorithm employed to minimize the difference between two clouds of points. It iteratively revises the transformation (translation, rotation) needed to minimize the distance between the points of two point clouds. |
| 114215 | Freehand | Human controlled minimization of the distance between the points of two point clouds. |
| 114216 | Checkerboard | Scanning the object from different views by placing it in front of a checkerboard pattern. |
| 121001 | Quotation Mode | Type of source for observations quoted from an external source. |
| 121002 | Quoted Source | Reference to external source of quoted observations. |
| 121003 | Document | Documentary source of quoted observations. |
| 121004 | Verbal | Verbal source of quoted observations. |
| 121005 | Observer Type | Type of observer that created the observations. |
| 121006 | Person | Human observer created the observations. |
| 121007 | Device | Automated device created the observations. |
| 121008 | Person Observer Name | Name of human observer that created the observations. |
| 121009 | Person Observer's Organization Name | Organization or institution with which the human observer is affiliated for the context of the current observation. |
| 121010 | Person Observer's Role in the Organization | Organizational role of human observer for the context of the current observation. |
| 121011 | Person Observer's Role in this Procedure | Procedural role of human observer for the context of the current observation. |
| 121012 | Device Observer UID | Unique identifier of automated device that created the observations. |
| 121013 | Device Observer Name | Institution-provided identifier of automated device that created the observations. |
| 121014 | Device Observer Manufacturer | Manufacturer of automated device that created the observations. |
| 121015 | Device Observer Model Name | Manufacturer-provided model name of automated device that created the observations. |
| 121016 | Device Observer Serial Number | Manufacturer-provided serial number of automated device that created the observations. |
| 121017 | Device Observer Physical Location During Observation | Location of automated device that created the observations whilst the observations were being made. |
| 121018 | Procedure Study Instance UID | Unique identifier for the Study or Requested Procedure. |
| 121019 | Procedure Study Component UID | Unique identifier for the Performed Procedure Step. |
| 121020 | Placer Number | Identifier for the Order (or Service Request) assigned by the order placer system. |
| 121021 | Filler Number | Identifier for the Order (or Service Request) assigned by the order filler system. |
| 121022 | Accession Number | Identifier for the Order (or Service Request) assigned by the department information system. |
| 121023 | Procedure Code | Type of procedure scheduled or performed. |
| 121024 | Subject Class | Type of observation subject. |
| 121025 | Patient | A patient is the subject of observations. |
| 121026 | Fetus | Fetus of patient is the subject of observations. |
| 121027 | Specimen | Specimen is the subject of observations. |
| 121028 | Subject UID | Unique Identifier of patient or fetus who is the subject of observations. |
| 121029 | Subject Name | Name of patient who is the subject of observations. |
| 121030 | Subject ID | Identifier of patient or fetus who is the subject of observations. |
| 121031 | Subject Birth Date | Birth Date of patient who is the subject of observations. |
| 121032 | Subject Sex | Sex of patient who is the subject of observations. |
| 121033 | Subject Age | Age of patient who is the subject of observations. |
| 121034 | Subject Species | Species of patient who is the subject of observations. |

| Code Value | Code Meaning | Definition | |
|------------|--|--|-----------------------|
| 121035 | Subject Breed | The breed of the subject. | |
| 121036 | Mother of fetus | Name of mother of fetus that is the subject of observations. | |
| 121037 | <i>Fetus number</i> | | Reti (119) |
| 121038 | <i>Number of Fetuses</i> | | Reti (552) Fetu |
| 121039 | Specimen UID | Unique Identifier of specimen that is the subject of observations. | |
| 121040 | <i>Specimen Accession Number</i> | <i>Accession Number of specimen that is the subject of observations</i> | Reti |
| 121041 | Specimen Identifier | Identifier of specimen that is the subject of observations. | |
| 121042 | <i>Specimen Type</i> | <i>Coded category of specimen that is the subject of observations</i> | Reti (R-0) Type |
| 121043 | <i>Slide Identifier</i> | <i>Identifier of specimen microscope slide that is the subject of observations</i> | Reti (111) Con |
| 121044 | <i>Slide UID</i> | <i>Unique Identifier of specimen microscope slide that is the subject of observations</i> | Reti |
| 121045 | Language | The language of the content, being a language that is primarily used for human communication. E.g., English, French. | |
| 121046 | Country of Language | The country-specific variant of language. E.g., Canada for Canadian French. | |
| 121047 | Language of Value | The language of the value component of a name-value pair. | |
| 121048 | Language of Name and Value | The language of both the name component and the value component of a name-value pair. | |
| 121049 | Language of Content Item and Descendants | The language of the current Content Item (node in a tree of content) and all its descendants. | |
| 121050 | Equivalent Meaning of Concept Name | The human readable meaning of the name component of a name-value pair that is equivalent to the post-coordinated meaning conveyed by the coded name and its concept modifier children. | |
| 121051 | Equivalent Meaning of Value | The human readable meaning of the value component of a name-value pair that is equivalent to the post-coordinated meaning conveyed by the coded value and its concept modifier children. | |
| 121052 | Presence of property | Whether or not the property concept being modified is present or absent. | |
| 121053 | <i>Present</i> | | Reti (G-A) |
| 121054 | <i>Absent</i> | | Reti (R-4) |
| 121055 | Path | A set of points on an image, that when connected by line segments, provide a polyline from which a linear measurement was inferred. | |
| 121056 | Area outline | A set of points on an image, that when connected by line segments, provide a closed polyline that is the border of a defined region from which an area, or two-dimensional measurement, was inferred. | |
| 121057 | Perimeter outline | A set of points on an image, that when connected by line segments, provide a closed polyline that is a two-dimensional border of a three-dimensional region's intersection with, or projection into the image. | |
| 121058 | Procedure reported | The imaging procedure whose results are reported. | |
| 121059 | <i>Presence Undetermined</i> | <i>Presence or absence of a property is undetermined</i> | Reti (R-4) "Un |

| Code Value | Code Meaning | Definition |
|------------|---------------------------------------|---|
| 121060 | <i>History</i> | |
| 121062 | <i>Request</i> | |
| 121064 | <i>Current Procedure Descriptions</i> | |
| 121065 | Procedure Description | A description of the imaging procedure. |
| 121066 | <i>Prior Procedure Descriptions</i> | |
| 121068 | <i>Previous Findings</i> | |
| 121069 | Previous Finding | An observation found on a prior imaging study. |
| 121070 | <i>Findings</i> | |
| 121071 | Finding | An observation found on an imaging study. |
| 121072 | <i>Impressions</i> | |
| 121073 | Impression | An interpretation in the clinical context of the finding(s) on an imaging study. |
| 121074 | <i>Recommendations</i> | |
| 121075 | Recommendation | A recommendation for management or investigation based on the findings and impressions of an imaging study. |
| 121076 | <i>Conclusions</i> | |
| 121077 | Conclusion | An interpretation in the clinical context of the finding(s) on an imaging study. |
| 121078 | <i>Addendum</i> | |
| 121079 | Baseline | Initial images used to establish a beginning condition that is used for comparison over time to look for changes. [Paraphrases NCI-PT (C1442488, UMLS, "Baseline"), which is defined as "An initial measurement that is taken at an early time point to represent a beginning condition, and is used for comparison over time to look for changes. For example, the size of a tumor will be measured before treatment (baseline) and then afterwards to see if the treatment had an effect. A starting point to which things may be compared."] |
| 121080 | Best illustration of finding | A selection of composite instances that best illustrates a particular finding. E.g., an image slice at the location of the largest extent of a tumor. |
| 121081 | <i>Physician</i> | |
| 121082 | <i>Nurse</i> | |
| 121083 | <i>Technologist</i> | |
| 121084 | <i>Radiographer</i> | |

| Code Value | Code Meaning | Definition | |
|------------|----------------------------------|---|-------------------------------|
| 121085 | <i>Intern</i> | | <i>Reti</i> (C11) |
| 121086 | <i>Resident</i> | | <i>Reti</i> (J-0) |
| 121087 | <i>Registrar</i> | | <i>Reti</i> (J-0) |
| 121088 | <i>Fellow</i> | A medical practitioner undergoing sub-specialty training. E.g., during the period after specialty training (residency). | |
| 121089 | <i>Attending [Consultant]</i> | | <i>Reti</i> (J-0) |
| 121090 | <i>Scrub nurse</i> | | <i>Reti</i> (J-0) nurs |
| 121091 | <i>Surgeon</i> | | <i>Reti</i> (J-0) |
| 121092 | <i>Sonologist</i> | A medical practitioner with sub-specialty training in Ultrasound. | |
| 121093 | <i>Sonographer</i> | | <i>Reti</i> (C11) "Son" |
| 121094 | <i>Performing</i> | The person responsible for performing the procedure. | |
| 121095 | <i>Referring</i> | <i>The person responsible for referring the patient for the procedure.</i> | <i>Reti</i> (C11) phys |
| 121096 | <i>Requesting</i> | The person responsible for requesting the procedure. | |
| 121097 | <i>Recording</i> | The person responsible for recording the procedure or observation. | |
| 121098 | <i>Verifying</i> | The person responsible for verifying the recorded procedure or observation. | |
| 121099 | <i>Assisting</i> | The person responsible for assisting with the procedure. | |
| 121100 | <i>Circulating</i> | <i>The person responsible for making preparations for and monitoring the procedure.</i> | <i>Reti</i> (J-0) Nurs |
| 121101 | <i>Standby</i> | The person responsible for standing by to assist with the procedure if required. | |
| 121102 | <i>Other sex</i> | Other sex. | |
| 121103 | <i>Undetermined sex</i> | Sex of subject undetermined at time of encoding. | |
| 121104 | <i>Ambiguous sex</i> | Ambiguous sex. | |
| 121105 | <i>Radiation Physicist</i> | <i>Radiation Physicist.</i> | <i>Reti</i> (C21) Phy |
| 121106 | <i>Comment</i> | Comment. | |
| 121109 | <i>Indications for Procedure</i> | <i>Indications for Procedure</i> | <i>Reti</i> (187) Proc |
| 121110 | <i>Patient Presentation</i> | <i>Patient condition at the beginning of a healthcare encounter</i> | <i>Reti</i> (551) Pres |
| 121111 | <i>Summary</i> | <i>Summary of a procedure, including most significant findings</i> | <i>Reti</i> (551) |
| 121112 | <i>Source of Measurement</i> | Image or waveform used as source for measurement. | |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 121113 | <i>Complications</i> | <i>Complications from a procedure</i> |
| 121114 | Performing Physician | Physician who performed a procedure. |
| 121115 | Discharge Summary | Summary of patient condition upon Discharge from a healthcare facility. |
| 121116 | Proximal Finding Site | Proximal Anatomic Location for a differential measurement; may be considered subtype of term (G-C0E3, SRT, "Finding Site"). E.g., distance or pressure gradient. |
| 121117 | Distal Finding Site | Distal Anatomic Location for a differential measurement; may be considered subtype of term (G-C0E3, SRT, "Finding Site"). E.g., distance or pressure gradient. |
| 121118 | Patient Characteristics | Patient Characteristics (findings). |
| 121120 | Cath Lab Procedure Log | Time-stamped record of events that occur during a catheterization procedure. |
| 121121 | Room identification | Room identification. |
| 121122 | Equipment Identification | Equipment identification. |
| 121123 | Patient Status or Event | A recorded Patient Status or an event involving a patient. |
| 121124 | Procedure Action Item ID | Identification of a step, action, or phase of a procedure. |
| 121125 | DateTime of Recording of Log Entry | DateTime of Recording of an Entry in an Event Log. |
| 121126 | Performed Procedure Step SOP Instance UID | SOP Instance UID of a Performed Procedure Step. |
| 121127 | Performed Procedure Step SOP Class UID | SOP Class UID of a Performed Procedure Step. |
| 121128 | Procedure Action Duration | Duration of a step, action, or phase of a procedure. |
| 121130 | Start Procedure Action Item | Beginning of a step, action, or phase of a procedure. |
| 121131 | End Procedure Action Item | End of a step, action, or phase of a procedure. |
| 121132 | Suspend Procedure Action Item | Suspension of a step, action, or phase of a procedure. |
| 121133 | Resume Procedure Action Item | Resumption of a step, action, or phase of a procedure. |
| 121135 | Observation DateTime Qualifier | Concept modifier for the DateTime of Recording of an Entry in an Event Log. |
| 121136 | DateTime Unsynchronized | Recorded DateTime had its source in a system clock not synchronized to other recorded DateTimes. |
| 121137 | DateTime Estimated | Recorded DateTime is estimated. |
| 121138 | Image Acquired | Event of the acquisition of an image. |
| 121139 | Modality | Type of data acquisition device. |
| 121140 | Number of Frames | Number of Frames in a multi-frame image. |
| 121141 | Image Type | Descriptor of an Image. |
| 121142 | Acquisition Duration | Duration of the acquisition of an image or a waveform. |
| 121143 | Waveform Acquired | Event of the acquisition of an image. |
| 121144 | Document Title | Document Title. |
| 121145 | Description of Material | Description of Material used in a procedure. |
| 121146 | Quantity of Material | Quantity of Material used in a procedure. |
| 121147 | Billing Code | Billing Code for materials used in a procedure. |
| 121148 | Unit Serial Identifier | Unit or Device Serial Identifier. |
| 121149 | Lot Identifier | Lot Identifier. |
| 121150 | Device Code | Vendor or local coded value identifying a device. |
| 121151 | Lesion Identifier | Identification of a Lesion observed during an imaging procedure. |

| Code Value | Code Meaning | Definition | |
|------------|---|---|------------------------|
| 121152 | Person administering drug/contrast | Person administering drug/contrast. | |
| 121153 | Lesion Risk | Assessment of the risk a coronary lesion presents to the health of a patient. | |
| 121154 | Intervention attempt identifier | Identifier for an attempted Intervention. | |
| 121155 | Deployment | Use of a device to deploy another device. | |
| 121156 | Percutaneous Entry Action | Action of a clinical professional at the site of percutaneous access to a patient's cardiovascular system. | |
| 121157 | Begin Circulatory Support | The action or event of beginning circulatory support for a patient. | |
| 121158 | End Circulatory Support | The action or event of ending circulatory support for a patient. | |
| 121160 | Oxygen Administration Rate | Rate of Oxygen Administration. | |
| 121161 | Begin Oxygen Administration | The action or event of beginning administration of oxygen to a patient. | |
| 121162 | End oxygen administration | The action or event of ending administration of oxygen to a patient. | |
| 121163 | By ventilator | Method of administration of oxygen to a patient by ventilator. | |
| 121165 | Patient Assessment Performed | The action or event of assessing the clinical status of a patient. | |
| 121166 | Begin Pacing | The action or event of beginning pacing support for a patient. | |
| 121167 | End Pacing | The action or event of ending pacing support for a patient. | |
| 121168 | Begin Ventilation | The action or event of beginning ventilation support for a patient. | |
| 121169 | End Ventilation | The action or event of ending ventilation support for a patient. | |
| 121171 | Tech Note | Procedural note originated by a technologist. | |
| 121172 | Nursing Note | Procedural note originated by a nurse. | |
| 121173 | Physician Note | Procedural note originated by a Physician. | |
| 121174 | Procedure Note | General procedural note. | |
| 121180 | <i>Key Images</i> | <i>List of references to images considered significant</i> | <i>Reti (551</i> |
| 121181 | DICOM Object Catalog | List of references to DICOM SOP Instances. | |
| 121190 | Referenced Frames | Individual frames selected as a subset of a multi-frame image. | |
| 121191 | Referenced Segment | Segment selected as a subset of a segmentation image, specifically the pixels/voxels identified as belonging to the classification of the identified segment. | |
| 121192 | Device Subject | A device is the subject of observations. | |
| 121193 | Device Subject Name | Name or other identifier of a device that is the subject of observations. | |
| 121194 | Device Subject Manufacturer | Manufacturer of a device that is the subject of observations. | |
| 121195 | Device Subject Model Name | Model Name of a device that is the subject of observations. | |
| 121196 | Device Subject Serial Number | Serial Number of a device that is the subject of observations. | |
| 121197 | Device Subject Physical Location during observation | Physical Location of a device that is the subject of observations during those observations. | |
| 121198 | Device Subject UID | Unique Identifier of a device that is the subject of observations. | |
| 121200 | Illustration of ROI | Illustration of a region of interest. | |
| 121201 | <i>Area Outline</i> | | <i>Reti (121 Outl</i> |
| 121202 | <i>Area of Defined Region</i> | | <i>Reti (G-A defin</i> |
| 121206 | Distance | A one dimensional, or linear, numeric measurement. | |
| 121207 | Height | Vertical measurement value. | |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 121208 | Inter-Marker Distance | Distance between marks on a device of calibrated size. E.g., a ruler. |
| 121210 | <i>Path</i> | |
| 121211 | Path length | A one dimensional, or linear, numeric measurement along a polyline. |
| 121213 | <i>Perimeter Outline</i> | |
| 121214 | Referenced Segmentation Frame | Frame selected from a segmentation image, specifically the pixels/voxels identified as belonging to the classification of the segment encompassing the identified frame. |
| 121216 | Volume estimated from single 2D region | A three-dimensional numeric measurement that is approximate, based on a two-dimensional region in a single image. |
| 121217 | Volume estimated from three or more non-coplanar 2D regions | A three-dimensional numeric measurement that is approximate, based on three or more non-coplanar two-dimensional image regions. |
| 121218 | Volume estimated from two non-coplanar 2D regions | A three-dimensional numeric measurement that is approximate, based on two non-coplanar two-dimensional image regions. |
| 121219 | Volume of bounding three dimensional region | A three-dimensional numeric measurement of the bounding region of a three-dimensional region of interest in an image set. |
| 121220 | Volume of circumscribed sphere | A three-dimensional numeric measurement of the bounding sphere of a three-dimensional region of interest in an image set. |
| 121221 | Volume of ellipsoid | A three-dimensional numeric measurement of an ellipsoid shaped three-dimensional region of interest in an image set. |
| 121222 | Volume of sphere | A three-dimensional numeric measurement of a sphere shaped three-dimensional region of interest in an image set. |
| 121230 | Path Vertex | Coordinates of a point on a defined path. |
| 121231 | Volume Surface | Surface of an identified or measured volume. |
| 121232 | Source series for segmentation | Series of image instances used as source data for a segmentation. |
| 121233 | Source image for segmentation | Image instances used as source data for a segmentation. |
| 121242 | Distance from nipple | Indicates the location of the area of interest as measured from the nipple of the breast. |
| 121243 | Distance from skin | Indicates the location of the area of interest as measured from the most direct skin point of the breast. |
| 121244 | Distance from chest wall | Indicates the location of the area of interest as measured from the chest wall. |
| 121290 | Patient exposure to ionizing radiation | Patient exposure to ionizing radiation (procedure). |
| 121291 | Results communicated | The act of communicating actionable findings to a responsible receiver. |
| 121301 | Simultaneous Doppler | Reference is to a Doppler waveform acquired simultaneously with an image. |
| 121302 | Simultaneous Hemodynamic | Reference is to a Hemodynamic waveform acquired simultaneously with an image. |
| 121303 | Simultaneous ECG | Reference is to a ECG waveform acquired simultaneously with an image. |
| 121304 | Simultaneous Voice Narrative | Reference is to a voice narrative recording acquired simultaneously with an image. |
| 121305 | Simultaneous Respiratory Waveform | A waveform representing chest expansion and contraction due to respiratory activity, measured simultaneously with the acquisition of this Image. |
| 121306 | Simultaneous Arterial Pulse Waveform | Arterial pulse waveform obtained simultaneously with acquisition of a referencing image. |
| 121307 | Simultaneous Phonocardiographic Waveform | Phonocardiographic waveform obtained simultaneously with acquisition of a referencing image. |

| Code Value | Code Meaning | Definition | |
|------------|---|--|-----------------------|
| 121310 | RT treatment plan for the position being verified | The referenced instance is an RT treatment plan of some type, which contains treatment positioning information, which has been verified using the information in the referencing instance. | The typical RT I Set. |
| 121311 | Localizer | Image providing an anatomical reference on the patient under examination, for the purpose of defining the location of the ensuing imaging. | |
| 121312 | Biopsy localizer | Image providing an anatomical reference on the patient under examination, for the purpose of planning or documenting a biopsy. | |
| 121313 | Other partial views | Image providing a partial view of the target anatomy, when the target anatomy is too large for a single image. | |
| 121314 | Other image of biplane pair | Image providing a view of the target anatomy in a different imaging plane, typically from a near perpendicular angle. | |
| 121315 | Other image of stereoscopic pair | Image providing a view of the target anatomy in a different imaging plane, typically with a small angular difference. | |
| 121316 | Images related to standalone object | Image related to a non-image information object. | |
| 121317 | Spectroscopy | Image where signals are identified and separated according to their frequencies. E.g., to identify individual chemicals, or individual nuclei in a chemical compound. | |
| 121318 | Spectroscopy Data for Water Phase Correction | MR spectroscopy data acquired to correct the phase of the diagnostic data for the phase signal of the Water. | |
| 121320 | Uncompressed predecessor | An image that has not already been lossy compressed that is used as the source for creation of a lossy compressed image. | |
| 121321 | Mask image for image processing operation | Image used as the mask for an image processing operation, such as subtraction. | |
| 121322 | Source image for image processing operation | Image used as the source for an image processing operation. | |
| 121323 | Source series for image processing operation | Series used as the source for an image processing operation. | |
| 121324 | Source Image | Image used as the source for a derived or compressed image. | |
| 121325 | Lossy compressed image | Image encoded with a lossy compression transfer syntax. | |
| 121326 | Alternate SOP Class instance | SOP Instance encoded with a different SOP Class but otherwise equivalent data. | |
| 121327 | Full fidelity image | Full fidelity image, uncompressed or lossless compressed. | |
| 121328 | Alternate Photometric Interpretation image | Image encoded with a different photometric interpretation. | |
| 121329 | Source image for montage | Image used as a source for a montage (stitched) image. | |
| 121330 | Lossy compressed predecessor | An image that has previously been lossy compressed that is used as the source for creation of another lossy compressed image. | |
| 121331 | Equivalent CDA Document | HL7 Document Architecture (CDA) Document that contains clinical content equivalent to the referencing Instance. | |
| 121332 | Complete Rendering for Presentation | Instance that contains a displayable complete rendering of the referencing Instance. | |
| 121333 | Partial Rendering for Presentation | Instance that contains a displayable partial rendering of the referencing Instance. | |
| 121334 | Extended Rendering for Presentation | Instance that contains a displayable complete rendering of the referencing Instance, plus additional content such as inline rendering of referenced images. | |
| 121335 | Source Document | Document whose content has been wholly or partially transformed to create the referencing document. | |
| 121338 | Anatomic image | Image showing structural anatomic features. | |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 121339 | Functional image | Image showing physical or chemical activity. |
| 121340 | Spectral filtered image | Image providing the same view of the target anatomy acquired using only a specific imaging wavelength, frequency or energy. |
| 121341 | Device localizer | Image providing an anatomical reference on the patient under examination, for the purpose of documenting the location of device such as a diagnostic or therapeutic catheter. |
| 121342 | Dose Image | Image providing a graphic view of the distribution of radiation dose. |
| 121346 | Acquisition frames corresponding to volume | The referenced image is the source of spatially-related frames from which the referencing 3D volume data set was derived. |
| 121347 | Volume corresponding to spatially-related acquisition frames | 3D Volume containing the spatially-related frames in the referencing instance. |
| 121348 | Temporal Predecessor | Instance acquired prior to the referencing instance in a set of consecutively acquired instances. |
| 121349 | Temporal Successor | Instance acquired subsequent to the referencing instance in a set of consecutively acquired instances. |
| 121350 | Same acquisition at lower resolution | Image of the same target area at lower resolution acquired in the same acquisition process. |
| 121351 | Same acquisition at higher resolution | Image of the same target area at higher resolution acquired in the same acquisition process. |
| 121352 | Same acquisition at different focal depth | Image of the same target area at different focal depth (Z-plane) acquired in the same acquisition process. |
| 121353 | Same acquisition at different spectral band | Image of the same target area at different spectral band acquired in the same acquisition process. |
| 121354 | Imaged container label | Image specifically targeting the container label. |
| 121358 | For Processing predecessor | Source image from which FOR PRESENTATION images were created. |
| 121360 | Replaced report | The reference is to a predecessor report that has been replaced by the current report. |
| 121361 | Addended report | The reference is to a predecessor report to which the current report provides an addendum. |
| 121362 | Preliminary report | A report that precedes the final report and may contain only limited information; it may be time sensitive, and it is not expected to contain all the reportable findings. |
| 121363 | Partial report | A report that is not complete. |
| 121370 | Composed from prior doses | The dose object created was calculated by summation of existing, previously calculated, RT Dose instances. |
| 121371 | Composed from prior doses and current plan | The dose object created was calculated by summation of existing, previously calculated, RT Dose instances and dose newly calculated by the application. The newly calculated dose may or may not exist as an independent object. |
| 121372 | Source dose for composing current dose | RT Dose Instances used as source for calculated dose. |
| 121373 | RT Pre-Treatment Dose Check | An assessment of the dose delivery parameters performed before treatment. |
| 121374 | RT Pre-Treatment Consistency Check | An assessment of consistency with a previously quality-assured treatment plan performed before treatment. |
| 121375 | Assessment By Comparison | The basis of the assessment was a comparison object. |
| 121376 | Assessment By Rules | The basis of the assessment was a set of rules on expected values, ranges and relationships. |
| 121380 | Active Ingredient Undiluted Concentration | Concentration of the chemically or physically interesting (active) ingredient of a drug or contrast agent as delivered in product form from the manufacturer, typically in mg/ml. |
| 121381 | Contrast/Bolus Ingredient Opaque | X-Ray absorption of the active ingredient of a contrast agent ingredient is greater than the absorption of water (tissue). |
| 121382 | Quantity administered | Number of units of substance administered to a patient. E.g., tablets. |

| Code Value | Code Meaning | Definition | |
|------------|-----------------------------------|--|------------|
| 121383 | Mass administered | Mass of substance administered to a patient. | |
| 121401 | Derivation | Method of deriving or calculating a measured value. E.g., mean, or maximum of set. | |
| 121402 | Normality | Assessment of a measurement relative to a normal range of values; may be considered subtype of term (G-C0F2, SRT, "has interpretation"). | |
| 121403 | Level of Significance | Significance of a measurement. | |
| 121404 | Selection Status | Status of selection of a measurement for further processing or use. | |
| 121405 | Population description | Description of a population of measurements. | |
| 121406 | Reference Authority | Bibliographic or clinical reference for a Description of a population of measurements. | |
| 121407 | Normal Range description | Description of a normal range of values for a measurement concept. | |
| 121408 | Normal Range Authority | Bibliographic or clinical reference for a Description of a normal range of values. | |
| 121410 | User chosen value | Observation value selected by user for further processing or use, or as most representative. | |
| 121411 | Most recent value chosen | Observation value is the recently obtained, and has been selected for further processing or use. | |
| 121412 | Mean value chosen | Observation value is the mean of several measurements, and has been selected for further processing or use. | |
| 121414 | Standard deviation of population | Standard deviation of a measurement in a reference population. | |
| 121415 | Percentile Ranking of measurement | Percentile Ranking of an observation value with respect a reference population. | |
| 121416 | Z-Score of measurement | Z-score of an observation value with respect a reference population, expressed as the dimensionless quantity $(x-m)/s$, where $(x-m)$ is the deviation of the observation value (x) from the population mean (m) , and s is the standard deviation of the population. | |
| 121417 | 2 Sigma deviation of population | 2 Sigma deviation of a measurement in a reference population. | |
| 121420 | Equation | Formula used to compute a derived measurement. | |
| 121421 | Equation Citation | Bibliographic reference to a formula used to compute a derived measurement; reference may be to a specific equation in a journal article. | |
| 121422 | Table of Values Citation | Bibliographic reference to a Table of Values used to look up a derived measurement. | |
| 121423 | Method Citation | Bibliographic reference to a method used to compute a derived measurement. | |
| 121424 | Table of Values | A Table of Values used to look up a derived measurement. | |
| 121425 | Index | Factor (divisor or multiplicand) for normalizing a measurement. E.g., body surface area used for normalizing hemodynamic measurements. | |
| 121427 | <i>Estimated</i> | <i>Measurement obtained by observer estimation, rather than with a measurement tool or by calculation</i> | Reti (R-1) |
| 121428 | <i>Calculated</i> | <i>Measurement obtained by calculation</i> | Reti (R-4) |
| 121430 | Concern | Identified issue about a state or process that has the potential to require intervention or management. | |
| 121431 | DateTime Concern Noted | DateTime concern noted (noted by whom is determined by context of use). | |
| 121432 | DateTime Concern Resolved | DateTime the concern was resolved. | |
| 121433 | DateTime Problem Resolved | DateTime the problem was resolved. | |
| 121434 | Service Delivery Location | Place at which healthcare services may be provided. | |
| 121435 | Service Performer | Identification of a healthcare provider who performed a healthcare service; may be either a person or an organization. | |
| 121436 | Medical Device Used | Type or identifier of a medical device used on, in, or by a patient. | |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 121437 | <i>Pharmacologic and exercise stress test</i> | <i>Cardiac stress test using pharmacologic and exercise stressors</i> |
| 121438 | <i>Paced stress test</i> | <i>Cardiac stress test using an implanted or external cardiac pacing device</i> |
| 121439 | <i>Correction of congenital cardiovascular deformity</i> | <i>Procedure for correction of congenital cardiovascular deformity</i> |
| 121701 | RT Patient Setup | Process of placing patient in the anticipated treatment position, including specification and location of positioning aids, and other treatment delivery accessories. |
| 121702 | RT Patient Position Acquisition, single plane MV | Acquisition of patient positioning information prior to treatment delivery, using single-plane megavoltage imaging. |
| 121703 | RT Patient Position Acquisition, dual plane MV | Acquisition of patient positioning information prior to treatment delivery, using dual-plane megavoltage imaging. |
| 121704 | RT Patient Position Acquisition, single plane kV | Acquisition of patient positioning information prior to treatment delivery, using single-plane kilovoltage imaging. |
| 121705 | RT Patient Position Acquisition, dual plane kV | Acquisition of patient positioning information prior to treatment delivery, using dual-plane kilovoltage imaging. |
| 121706 | RT Patient Position Acquisition, dual plane kV/MV | Acquisition of patient positioning information prior to treatment delivery, using dual-plane combination kilovoltage and megavoltage imaging. |
| 121707 | RT Patient Position Acquisition, CT kV | Acquisition of patient positioning information prior to treatment delivery, using kilovoltage CT imaging. |
| 121708 | RT Patient Position Acquisition, CT MV | Acquisition of patient positioning information prior to treatment delivery, using megavoltage CT imaging. |
| 121709 | RT Patient Position Acquisition, Optical | Acquisition of patient positioning information prior to treatment delivery, using optical imaging. |
| 121710 | RT Patient Position Acquisition, Ultrasound | Acquisition of patient positioning information prior to treatment delivery, using ultrasound imaging. |
| 121711 | RT Patient Position Acquisition, Spatial Fiducials | Acquisition of patient positioning information prior to treatment delivery, using spatial fiducials. |
| 121712 | RT Patient Position Registration, single plane | Registration of intended and actual patient position prior to treatment delivery, using single-plane images. |
| 121713 | RT Patient Position Registration, dual plane | Registration of intended and actual patient position prior to treatment delivery, using dual-plane images. |
| 121714 | RT Patient Position Registration, 3D CT general | Registration of intended and actual patient position prior to treatment delivery, using 3D CT images and an unspecified registration approach. |
| 121715 | RT Patient Position Registration, 3D CT marker-based | Registration of intended and actual patient position prior to treatment delivery, using 3D CT images and a marker-based registration approach. |
| 121716 | RT Patient Position Registration, 3D CT volume-based | Registration of intended and actual patient position prior to treatment delivery, using 3D CT images and a volume-based registration approach. |
| 121717 | RT Patient Position Registration, 3D on 2D reference | Registration of intended and actual patient position prior to treatment delivery, using 3D verification images and 2D reference images. |
| 121718 | RT Patient Position Registration, 2D on 3D reference | Registration of intended and actual patient position prior to treatment delivery, using 2D verification images and 3D reference images. |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 121719 | RT Patient Position Registration, Optical | Registration of intended and actual patient position prior to treatment delivery, using optical images. |
| 121720 | RT Patient Position Registration, Ultrasound | Registration of intended and actual patient position prior to treatment delivery, using ultrasound images. |
| 121721 | RT Patient Position Registration, Spatial Fiducials | Registration of intended and actual patient position prior to treatment delivery, using spatial fiducials. |
| 121722 | RT Patient Position Adjustment | Adjustment of patient position such that the patient is correctly positioned for treatment. |
| 121723 | RT Patient Position In-treatment-session Review | Review of patient positioning information in the process of delivering a treatment session. |
| 121724 | RT Treatment Simulation with Internal Verification | Simulated radiotherapy treatment delivery using verification integral to the Treatment Delivery System. |
| 121725 | RT Treatment Simulation with External Verification | Simulated radiotherapy treatment delivery using verification by a external Machine Parameter Verifier. |
| 121726 | RT Treatment with Internal Verification | Radiotherapy treatment delivery using verification integral to the Treatment Delivery System. |
| 121727 | RT Treatment with External Verification | Radiotherapy treatment delivery using verification by a external Machine Parameter Verifier. |
| 121728 | RT Treatment QA with Internal Verification | Quality assurance of a radiotherapy treatment delivery using verification integral to the Treatment Delivery System. |
| 121729 | RT Treatment QA with External Verification | Quality assurance of a radiotherapy treatment delivery using verification by a external Machine Parameter Verifier. |
| 121730 | RT Machine QA | Quality assurance of a Treatment Delivery Device. |
| 121731 | RT Treatment QA by RT Plan Dose Check | Perform Quality Assurance on an RT Plan by evaluating dosimetric content of the current RT Plan. |
| 121732 | RT Treatment QA by RT Plan Difference Check | Perform Quality Assurance on an RT Plan by comparing the content of previously quality-assessed RT Plans with the current RT Plan. |
| 121733 | RT Treatment QA by RT Ion Plan Dose Check | Perform Quality Assurance on an RT Ion Plan by evaluating dosimetric content of the current RT Ion Plan. |
| 121734 | RT Treatment QA with RT Ion Plan Difference Check | Perform Quality Assurance on an RT Ion Plan by comparing the content of previously quality-assessed RT Ion Plans by the current RT Ion Plan. |
| 121735 | RT Brachy Treatment | Brachytherapy Treatment Delivery. |
| 121740 | Treatment Delivery Type | Indicates whether the treatment to be delivered is a complete fraction or a continuation of previous incompletely treated fraction. |
| 122001 | Patient called to procedure room | Patient called to procedure room. |
| 122002 | Patient admitted to procedure room | Patient admitted to procedure room. |
| 122003 | Patient given pre-procedure instruction | Patient given pre-procedure instruction. |
| 122004 | Patient informed consent given | Patient informed consent given. |
| 122005 | Patient advance directive given | Patient advance directive given. |
| 122006 | Nil Per Os (NPO) status confirmed | Nil Per Os (NPO) status confirmed. |
| 122007 | Patient assisted to table | Patient assisted to table. |
| 122008 | Patient prepped and draped | Patient prepped and draped. |
| 122009 | Patient connected to continuous monitoring | Patient connected to continuous monitoring. |
| 122010 | Patient transferred to holding area | Patient transferred to holding area. |
| 122011 | Patient transferred to surgery | Patient transferred to surgery. |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 122012 | Patient transferred to CCU | Patient transferred to CCU. |
| 122020 | Patient disoriented | Patient disoriented. |
| 122021 | Patient reports nausea | Patient reports nausea. |
| 122022 | Patient reports discomfort | Patient reports discomfort. |
| 122023 | Patient reports chest pain | Patient reports chest pain. |
| 122024 | Patient reports no pain | Patient reports no pain. |
| 122025 | Patient alert | Patient alert. |
| 122026 | Patient restless | Patient restless. |
| 122027 | Patient sedated | Patient sedated. |
| 122028 | Patient asleep | Patient asleep. |
| 122029 | Patient unresponsive | Patient unresponsive. |
| 122030 | Patient has respiratory difficulty | Patient has respiratory difficulty. |
| 122031 | Patient coughed | Patient coughed. |
| 122032 | Patient disconnected from continuous monitoring | Patient disconnected from continuous monitoring. |
| 122033 | Hemostasis achieved | Hemostasis achieved. |
| 122034 | Hemostasis not achieved - oozing | Hemostasis not achieved - oozing. |
| 122035 | Hemostasis not achieved - actively bleeding | Hemostasis not achieved - actively bleeding. |
| 122036 | Patient given post-procedure instruction | Patient given post-procedure instruction. |
| 122037 | Patient discharged from department | Patient discharged from department or laboratory. |
| 122038 | Patient pronounced dead | Patient pronounced dead. |
| 122039 | Patient transferred to morgue | Patient transferred to morgue. |
| 122041 | Personnel Arrived | Identified personnel or staff arrived in procedure room. |
| 122042 | Personnel Departed | Identified personnel or staff departed procedure room. |
| 122043 | Page Sent To | Page sent to identified personnel or staff. |
| 122044 | Consultation With | Consultation with identified personnel or staff. |
| 122045 | Office called | Office of identified personnel or staff was called. |
| 122046 | <i>Equipment failure</i> | <i>Equipment failure</i> |
| 122047 | Equipment brought to procedure room | Equipment brought to procedure room. |
| 122048 | Equipment ready | Equipment ready for procedure. |
| 122049 | Equipment removed | Equipment removed from procedure room. |
| 122052 | Bioptome | Device for obtaining biopsy sample. |
| 122053 | Valvular Intervention | Valvular Intervention. |
| 122054 | Aortic Intervention | Aortic Intervention. |
| 122055 | Septal Defect Intervention | Septal Defect Intervention. |
| 122056 | Vascular Intervention | Vascular Intervention. |
| 122057 | Myocardial biopsy | Myocardial biopsy. |
| 122058 | Arterial conduit angiography | Arterial conduit angiography. |

| Code Value | Code Meaning | Definition | |
|------------|--|--|---------------------|
| 122059 | Single plane Angiography | Single plane Angiography. | |
| 122060 | Bi-plane Angiography | Bi-plane Angiography. | |
| 122061 | Percutaneous Coronary Intervention | Percutaneous Coronary Intervention. | |
| 122062 | 15-Lead ECG | 15-Lead electrocardiography | Reti (P2- ECG |
| 122072 | Pre-procedure log | Log of events occurring prior to the current procedure. | |
| 122073 | Current procedure evidence | Analysis or measurements for current procedure (purpose of reference to evidence document). | |
| 122075 | Prior report for current patient | Prior report for current patient. | |
| 122076 | Consumable taken from inventory | Identifier of Consumable taken from inventory. | |
| 122077 | Consumable returned to inventory | Identifier of Consumable returned to inventory. | |
| 122078 | Remaining consumable disposed | Identifier of consumable whose remaining content has been disposed. | |
| 122079 | Consumable unusable | Identifier of Consumable determined to be unusable. | |
| 122081 | Drug start | Identifier of Drug whose administration has started. | |
| 122082 | Drug end | Identifier of Drug whose administration has ended. | |
| 122083 | Drug administered | Identifier of Drug administered as part of procedure. | |
| 122084 | Contrast start | Identifier of Contrast agent whose administration has started. | |
| 122085 | Contrast end | Identifier of Contrast agent whose administration has ended. | |
| 122086 | Contrast administered | Identifier of Contrast agent administered. | |
| 122087 | Infusate start | Identifier of Infusate whose administration has started. | |
| 122088 | Infusate end | Identifier of Infusate whose administration has ended. | |
| 122089 | Device crossed lesion | Action of a device traversing a vascular lesion. | |
| 122090 | Intervention Action | Action of a clinical professional performed on a patient for therapeutic purpose. | |
| 122091 | Volume administered | Volume of Drug, Contrast agent, or Infusate administered. | |
| 122092 | Undiluted dose administered | Undiluted dose of Drug, Contrast agent, or Infusate administered. | |
| 122093 | Concentration | Concentration of Drug, Contrast agent, or Infusate administered. | |
| 122094 | Rate of administration | Rate of Drug, Contrast agent, or Infusate administration. | |
| 122095 | Duration of administration | Duration of Drug, Contrast agent, or Infusate administration. | |
| 122096 | Volume unadministered or discarded | Volume of Drug, Contrast agent, or Infusate unadministered or discarded. | |
| 122097 | Catheter Curve | Numeric parameter of Curvature of Catheter. | |
| 122098 | Transmit Frequency | Transmit Frequency. | |
| 122099 | ST change from baseline | Measured change of patient electrocardiographic ST level relative to baseline measurement. | |
| 122101 | Aneurysm on cited vessel | Anatomic term modifier indicating aneurysm on cited vessel is the subject of the finding. | |
| 122102 | Graft to cited segment, proximal section | Anatomic term modifier indicating proximal section of graft to cited vessel is the subject of the finding. | |
| 122103 | Graft to cited segment, mid section | Anatomic term modifier indicating mid section of graft to cited vessel is the subject of the finding. | |
| 122104 | Graft to cited segment, distal section | Anatomic term modifier indicating distal section of graft to cited vessel is the subject of the finding. | |
| 122105 | DateTime of Intervention | DateTime of Intervention. | |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 122106 | Duration of Intervention | Duration of Intervention. |
| 122107 | <i>Baseline Stenosis Measurement</i> | <i>Lesion stenosis measured prior to any interventional procedure</i> |
| 122108 | <i>Post-Intervention Stenosis Measurement</i> | <i>Lesion stenosis measured after an interventional procedure</i> |
| 122109 | Baseline TIMI Flow | Assessment of perfusion across a coronary lesion measured prior to any interventional procedure. |
| 122110 | Post-Intervention TIMI Flow | Assessment of perfusion across a coronary lesion measured after an interventional procedure. |
| 122111 | Primary Intervention Device | Indication that device is the primary (first and/or most significant) device used for interventional therapy of a particular pathology. E.g., lesion. |
| 122112 | Normal Myocardium | Normal Myocardium. |
| 122113 | Sacred Myocardial | Sacred Myocardial. |
| 122114 | Thinning Myocardium | Thinning Myocardium. |
| 122120 | Hemodynamics Report | Hemodynamics Report. |
| 122121 | Atrial pressure measurements | Atrial pressure measurements, report section. |
| 122122 | Ventricular pressure measurements | Ventricular pressure measurements, report section. |
| 122123 | Gradient assessment | Gradient assessment, report section. |
| 122124 | Blood velocity measurements | Blood velocity measurements, report section. |
| 122125 | Blood lab measurements | Blood lab measurements, report section. |
| 122126 | Derived Hemodynamic Measurements | Derived Hemodynamic Measurements, report section. |
| 122127 | Clinical Context | Clinical Context, report section. |
| 122128 | Patient Transferred From | Location from which the patient was transferred. |
| 122129 | PCI during this procedure | Indication that the procedure includes a percutaneous coronary intervention. |
| 122130 | Dose Area Product | Radiation dose times area of exposure. |
| 122131 | Degree of Thrombus | Finding of probability and/or severity of thrombus. |
| 122132 | Severity of Calcification | Severity of Calcification, property of lesion. |
| 122133 | Lesion Morphology | Lesion Morphology; form and/or structural properties of lesion. |
| 122134 | Vessel Morphology | Vessel Morphology; form and/or structural properties of vessel. |
| 122138 | Circulatory Support | Technique (device or procedure) of support for patient circulatory system; hemodynamic support. |
| 122139 | Reason for Exam | Reason for Exam. |
| 122140 | Comparison with Prior Exam Done | Indication that the current exam data has been compared with prior exam data. |
| 122141 | Electrode Placement | Electrocardiographic electrode placement technique. |
| 122142 | Acquisition Device Type | Acquisition Device Type. |
| 122143 | Acquisition Device ID | Acquisition Device ID. |

| Code Value | Code Meaning | Definition | |
|------------|--|---|--|
| 122144 | Quantitative Analysis | Quantitative Analysis, report section. | |
| 122145 | Qualitative Analysis | Qualitative Analysis, report section. | |
| 122146 | Procedure DateTime | The date and time on which a procedure was performed on a patient. | |
| 122147 | Clinical Interpretation | Clinical Interpretation, report section. | |
| 122148 | Lead ID | ECG Lead Identifier. | |
| 122149 | Beat Number | Beat Number; ordinal of cardiac cycle within an acquisition. | |
| 122150 | Compound Statement | Complex coded semantic unit, consisting of several coded components. | |
| 122151 | Trend | Trend (temporal progression) of a clinical condition, finding, or disease. | |
| 122152 | Statement | Coded semantic unit. | |
| 122153 | Statement Modifier | Coded modifier for a semantic unit. | |
| 122154 | Conjunctive Term | Conjunctive term between semantic units. | |
| 122157 | Probability | Probability. | |
| 122158 | ECG Global Measurements | ECG Global Measurements, report section. | |
| 122159 | ECG Lead Measurements | ECG Lead Measurements, report section. | |
| 122160 | Derived Area, Non-Valve | Derived cross-sectional area of a vessel or anatomic feature, other than a cardiac valve. | |
| 122161 | Pulmonary Flow | Rate of blood flow through Pulmonary artery. | |
| 122162 | Systemic Flow | Rate of blood flow through the aorta. | |
| 122163 | Discharge DateTime | DateTime of patient discharge from hospital admission. | |
| 122164 | Coronary Artery Bypass During This Admission | Indication that a Coronary Artery Bypass operation was performed during the current hospital admission. | |
| 122165 | DateTime of Death | DateTime of Death. | |
| 122166 | Death During This Admission | Indication that the patient died during the current hospital admission. | |
| 122167 | Death During Catheterization | Indication that the patient died during the current Catheterization procedure. | |
| 122170 | Type of Myocardial Infarction | Finding of type of Myocardial Infarction. | |
| 122171 | Coronary lesion $\geq 50\%$ stenosis | Finding of Coronary lesion with greater than 50% stenosis. | |
| 122172 | Acute MI Present | Finding of Acute Myocardial Infarction Presence as indication for interventional procedure. | |
| 122173 | ST Elevation Onset DateTime | DateTime of first determination of elevated ECG ST segment, as indication of Myocardial Infarction. | |
| 122175 | Number of lesion interventions attempted | Number of lesion interventions attempted during current procedure. | |
| 122176 | Number of lesion interventions successful | Number of lesion interventions successful during current procedure, where the residual post intervention stenosis is less than or equal to 50% of the arterial luminal diameter, TIMI Flow is 3 and the minimal decrease in stenosis was 20%. | |
| 122177 | Procedure Result | Overall success of interventional procedure. | |
| 122178 | Lesion Intervention Information | Lesion Intervention Information, report section. | |
| 122179 | Peri-procedural MI occurred | Indication that Myocardial Infarction occurred during current procedure. | |
| 122180 | CK-MB baseline | Creatine Kinase-MB value at baseline (start of procedure). | |
| 122181 | CK-MB peak | Creatine Kinase-MB highest value measured during procedure. | |
| 122182 | R-R interval | Time interval between ECG R-wave peaks in subsequent cardiac cycles. | |
| 122183 | Blood temperature | Blood temperature. | |
| 122185 | Blood Oxygen content | Blood Oxygen content. | |
| 122187 | Blood Carbon dioxide saturation | Blood Carbon dioxide saturation. | |
| 122188 | Pulmonary Arterial Content (FCpa) | Pulmonary Arterial Content (FCpa). | |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 122189 | Pulmonary Venous Content (FCpv) | Pulmonary Venous Content (FCpv). |
| 122190 | Max dp/dt/P | Max dp/dt/P. |
| 122191 | Ventricular End Diastolic pressure | Ventricular End Diastolic pressure. |
| 122192 | Indicator appearance time | Elapsed time from injection of an indicator bolus until it is observed at another location. |
| 122193 | Maximum pressure acceleration | Maximum pressure acceleration. |
| 122194 | Ventricular Systolic blood pressure | Ventricular Systolic blood pressure. |
| 122195 | Pulse Strength | Pulse Strength; palpable strength of systolic flow. |
| 122196 | C wave pressure | The secondary peak pressure in the atrium during atrial contraction. |
| 122197 | Gradient pressure, average | Gradient pressure, average. |
| 122198 | Gradient pressure, peak | Gradient pressure, peak. |
| 122199 | Pressure at dp/dt max | Pressure at dp/dt max. |
| 122201 | Diastolic blood velocity, mean | Diastolic blood velocity, mean. |
| 122202 | Diastolic blood velocity, peak | Diastolic blood velocity, peak. |
| 122203 | Systolic blood velocity, mean | Systolic blood velocity, mean. |
| 122204 | Systolic blood velocity, peak | Systolic blood velocity, peak. |
| 122205 | Blood velocity, mean | Blood velocity, mean. |
| 122206 | Blood velocity, minimum | Blood velocity, minimum. |
| 122207 | Blood velocity, peak | Blood velocity, peak. |
| 122208 | x-descent pressure | Venous or atrial pressure minimum during ventricular systole, after A-wave. |
| 122209 | y-descent pressure | Venous or atrial pressure minimum when tricuspid valve opens during diastole, after V-wave. |
| 122210 | z-point pressure | Atrial pressure upon closure of tricuspid and mitral valves. |
| 122211 | Left Ventricular ejection time | Left Ventricular ejection time. |
| 122212 | Left Ventricular filling time | Left Ventricular filling time. |
| 122213 | Right Ventricular ejection time | Right Ventricular ejection time. |
| 122214 | Right Ventricular filling time | Right Ventricular filling time. |
| 122215 | Total Pulmonary Resistance | Total Pulmonary Resistance. |
| 122216 | Total Vascular Resistance | Total Vascular Resistance. |
| 122217 | Coronary Flow reserve | Coronary Flow reserve. |
| 122218 | Diastolic/Systolic velocity ratio | Diastolic/Systolic velocity ratio. |
| 122219 | Hyperemic ratio | Hyperemic ratio. |
| 122220 | Hemodynamic Resistance Index | Hemodynamic Resistance Index. |
| 122221 | Thorax diameter, sagittal | Thorax diameter, sagittal. |
| 122222 | Procedure Environmental Characteristics | Environmental characteristics in the procedure room. |
| 122223 | Room oxygen concentration | Oxygen concentration in the procedure room. |
| 122224 | Room temperature | Temperature in the procedure room. |
| 122225 | Room Barometric pressure | Barometric pressure in the procedure room. |
| 122227 | Left to Right Flow | Left to Right Flow. |
| 122228 | Right to Left Flow | Right to Left Flow. |
| 122229 | Arteriovenous difference | Arteriovenous oxygen content difference. |
| 122230 | 10 Year CHD Risk | Framingham Study 10 Year CHD Risk. |

| Code Value | Code Meaning | Definition | |
|------------|--|---|--|
| 122231 | Comparative Average 10 Year CHD Risk | Framingham Study Comparative Average 10 Year CHD Risk. | |
| 122232 | Comparative Low 10 Year CHD Risk | Framingham Study Comparative Low 10 Year CHD Risk. | |
| 122233 | LDL Cholesterol Score Sheet for Men | Framingham Study LDL Cholesterol Score Sheet for Men. | |
| 122234 | LDL Cholesterol Score Sheet for Women | Framingham Study LDL Cholesterol Score Sheet for Women. | |
| 122235 | Total Cholesterol Score Sheet for Men | Framingham Study Total Cholesterol Score Sheet for Men. | |
| 122236 | Total Cholesterol Score Sheet for Women | Framingham Study Total Cholesterol Score Sheet for Women. | |
| 122237 | Corrected Sinus Node Recovery Time | Corrected Sinus Node Recovery Time. | |
| 122238 | Max volume normalized to 50mmHg pulse pressure | Max volume normalized to 50mmHg pulse pressure. | |
| 122239 | Oxygen Consumption | Oxygen Consumption. | |
| 122240 | $BSA = 3.207 \cdot WT^{(0.7285-0.0188 \log(WT))} \cdot HT^{0.3}$ | Body Surface Area computed from patient height and weight: $BSA = 3.207 \cdot WT[g]^{(0.7285-0.0188 \log(WT[g]))} \cdot HT[cm]^{0.3}$ [Boyd E, The growth of the surface area of the human body. Minneapolis: University of Minnesota Press, 1935, eq. (36)]. | |
| 122241 | $BSA = 0.007184 \cdot WT^{0.425} \cdot HT^{0.725}$ | Body Surface Area computed from patient height and weight: $BSA = 0.007184 \cdot WT[kg]^{0.425} \cdot HT[cm]^{0.725}$ [Dubois and Dubois, Arch Int Med 1916 17:863-71]. | |
| 122242 | $BSA = 0.0235 \cdot WT^{0.51456} \cdot HT^{0.42246}$ | Body Surface Area computed from patient height and weight: $BSA = 0.0235 \cdot WT[kg]^{0.51456} \cdot HT[cm]^{0.42246}$ [Gehan EA, George SL, 'Estimation of human body surface area from height and weight', Cancer Chemother Rep 1970 54:225-35]. | |
| 122243 | $BSA = 0.024265 \cdot WT^{0.5378} \cdot HT^{0.3964}$ | Body Surface Area computed from patient height and weight: $BSA = 0.024265 \cdot WT[kg]^{0.5378} \cdot HT[cm]^{0.3964}$ [Haycock G.B., Schwartz G.J., Wisotsky D.H. 'Geometric method for measuring body surface area: A height weight formula validated in infants, children and adults.' The Journal of Pediatrics 1978 93:1:62-66]. | |
| 122244 | $BSA = (HT \cdot WT/36)^{0.5}$ | Body Surface Area computed from patient height and weight: $BSA = (HT[m] \cdot WT[kg] / 36)^{0.5}$ [Mosteller, R.D. 'Simplified Calculation of Body Surface Area.' N Engl J Med 1987 Oct 22;317(17):1098]. | |
| 122245 | $BSA = 1321 + 0.3433 \cdot WT$ | Body Surface Area computed from patient weight: $BSA = 1321 + 0.3433 \cdot WT[kg]$ (for pediatrics 3-30 kg) [Current, J.D. 'A Linear Equation For Estimating The Body Surface Area In Infants And Children', <i>The Internet Journal of Anesthesiology</i> . 1998. 2:2]. | |
| 122246 | $BSA = 0.0004688 \cdot WT^{(0.8168 - 0.0154 \cdot \log(WT))}$ | $BSA = 0.0004688 \cdot (1000 \cdot WT)^{(0.8168 - 0.0154 \cdot \log(1000 \cdot WT))}$ Where (WT is weight in kilogram) Units = m ² Boyd, Edith. <i>The Growth of the Surface Area of the Human Body</i> (originally published in 1935 by the University of Minnesota Press), Greenwood Press, Westport, Connecticut, 1975, p. 102. Equation (35). | |
| 122247 | $VO_{2\text{male}} = BSA (138.1 - 11.49 \cdot \log(\text{age}) + 0.378 \cdot HRf)$ | Equation for estimated oxygen consumption: $VO_{2\text{male}} = BSA (138.1 - 11.49 \cdot \log(\text{age}) + 0.378 \cdot HRf)$. | |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 122248 | $VO2_{female} = BSA (138.1 - 17.04 * \log_e(\text{age}) + 0.378 * HRf)$ | Equation for estimated oxygen consumption: $VO2_{female} = BSA (138.1 - 17.04 * \log_e(\text{age}) + 0.378 * HRf)$. |
| 122249 | $VO2 = VeSTPD * 10 * (FIO2 - FE02)$ | Equation for estimated oxygen consumption: $VO2 = VeSTPD * 10 * (FIO2 - FE02)$. |
| 122250 | $VO2 = 152 * BSA$ | Equation for estimated oxygen consumption: $VO2 = 152 * BSA$. |
| 122251 | $VO2 = 175 * BSA$ | Equation for estimated oxygen consumption: $VO2 = 175 * BSA$. |
| 122252 | $VO2 = 176 * BSA$ | Equation for estimated oxygen consumption: $VO2 = 176 * BSA$. |
| 122253 | Robertson & Reid table | Robertson & Reid Table for estimated oxygen consumption. |
| 122254 | Fleisch table | Fleisch table for estimated oxygen consumption. |
| 122255 | Boothby table | Boothby table for estimated oxygen consumption. |
| 122256 | if (prem age < 3days) $P50 = 19.9$ | Estimate of Oxygen partial pressure at 50% saturation for premature infants less than 3 days old: $P50 = 19.9$. |
| 122257 | if (age < 1day) $P50 = 21.6$ | Estimate of Oxygen partial pressure at 50% saturation for infants less than 1 day old: $P50 = 21.6$. |
| 122258 | if (age < 30day) $P50 = 24.6$ | Estimate of Oxygen partial pressure at 50% saturation for infants less than 30 days old: $P50 = 24.6$. |
| 122259 | if (age < 18y) $P50 = 27.2$ | Estimate of Oxygen partial pressure at 50% saturation for patients less than 18 years old: $P50 = 27.2$. |
| 122260 | if (age < 40y) $P50 = 27.4$ | Estimate of Oxygen partial pressure at 50% saturation for patients less than 40 years old: $P50 = 27.4$. |
| 122261 | if (age > 60y) $P50 = 29.3$ | Estimate of Oxygen partial pressure at 50% saturation for patients more than 60 years old: $P50 = 29.3$. |
| 122262 | $\text{Area} = \text{Flow} / 44.5 * \sqrt{\text{Gradient}[\text{mmHg}]}$ | Cardiac valve area computed from flow and pressure gradient: $\text{Area} = \text{Flow} / 44.5 * \sqrt{\text{Gradient}[\text{mmHg}]}$ [Gorlin and Gorlin, Am Heart J, 1951]. |
| 122263 | $\text{MVA} = \text{Flow} / 38.0 * \sqrt{\text{Gradient}[\text{mmHg}]}$ | Mitral valve area computed from flow and pressure gradient: $\text{Mitral valve Area} = \text{Flow} / 38.0 * \sqrt{\text{Gradient}[\text{mmHg}]}$ [Gorlin and Gorlin, Am Heart J, 1951]. |
| 122265 | $\text{BMI} = \text{Wt} / \text{Ht}^2$ | Body Mass Index computed from weight and height: $\text{BMI} = \text{Wt}/\text{Ht}^2$. |
| 122266 | $\text{BSA} = 0.007358 * \text{WT}^{\wedge} 0.425 * \text{HT}^{\wedge} 0.725$ | Body Surface Area computed from patient height and weight: $\text{BSA} = 0.007358 * \text{WT}[\text{kg}]^{\wedge} 0.425 * \text{HT}[\text{cm}]^{\wedge} 0.725$ (for East Asian adult, aged 15+ years) [Kanai Izumi, Masamitsu Kanai, 'Clinical examination method summary']. |
| 122267 | $\text{BSA} = 0.010265 * \text{WT}^{\wedge} 0.423 * \text{HT}^{\wedge} 0.651$ | Body Surface Area computed from patient height and weight: $\text{BSA} = 0.010265 * \text{WT}[\text{kg}]^{\wedge} 0.423 * \text{HT}[\text{cm}]^{\wedge} 0.651$ (For East Asian child aged 12-14 years). |
| 122268 | $\text{BSA} = 0.008883 * \text{WT}^{\wedge} 0.444 * \text{HT}^{\wedge} 0.663$ | Body Surface Area computed from patient height and weight: $\text{BSA} = 0.008883 * \text{WT}[\text{kg}]^{\wedge} 0.444 * \text{HT}[\text{cm}]^{\wedge} 0.663$ (For East Asian child aged 6-11 years). |
| 122269 | $\text{BSA} = 0.038189 * \text{WT}^{\wedge} 0.423 * \text{HT}^{\wedge} 0.362$ | Body Surface Area computed from patient height and weight: $\text{BSA} = 0.038189 * \text{WT}[\text{kg}]^{\wedge} 0.423 * \text{HT}[\text{cm}]^{\wedge} 0.362$ (For East Asian child aged 1-5 years). |
| 122270 | $\text{BSA} = 0.009568 * \text{WT}^{\wedge} 0.473 * \text{HT}^{\wedge} 0.655$ | Body Surface Area computed from patient height and weight: $\text{BSA} = 0.009568 * \text{WT}[\text{kg}]^{\wedge} 0.473 * \text{HT}[\text{cm}]^{\wedge} 0.655$ (For East Asian child aged 0-12 months). |
| 122271 | Skin Condition Warm | Skin Condition Warm. |
| 122272 | Skin Condition Cool | Skin Condition Cool. |
| 122273 | Skin Condition Cold | Skin Condition Cold. |
| 122274 | Skin Condition Dry | Skin Condition Dry. |
| 122275 | Skin Condition Clammy | Skin Condition Clammy. |
| 122276 | Skin Condition Diaphoretic | Skin Condition Diaphoretic. |
| 122277 | Skin Condition Flush | Skin Condition Flush. |

| Code Value | Code Meaning | Definition | |
|------------|--|---|--|
| 122278 | Skin Condition Mottled | Skin Condition Mottled. | |
| 122279 | Skin Condition Pale | Skin Condition Pale. | |
| 122281 | Airway unobstructed | Airway unobstructed. | |
| 122282 | Airway partially obstructed | Airway partially obstructed. | |
| 122283 | Airway severely obstructed | Airway severely obstructed. | |
| 122288 | Not Visualized | Anatomy could not be visualized for the purpose of evaluation. | |
| 122291 | Quantitative Arteriography Report | Quantitative Arteriography Report. | |
| 122292 | Quantitative Ventriculography Report | Quantitative Ventriculography Report. | |
| 122301 | Guidewire crossing lesion unsuccessful | Guidewire crossing lesion unsuccessful. | |
| 122302 | Guidewire crossing lesion successful | Guidewire crossing lesion successful. | |
| 122303 | Angioplasty balloon inflated | Angioplasty balloon inflated. | |
| 122304 | Angioplasty balloon deflated | Angioplasty balloon deflated. | |
| 122305 | Device deployed | Device deployed. | |
| 122306 | Stent re-expanded | Stent re-expanded. | |
| 122307 | Object removed | Object removed. | |
| 122308 | Radiation applied | Radiation applied. | |
| 122309 | Radiation removed | Radiation removed. | |
| 122310 | Interventional device placement unsuccessful | Interventional device placement unsuccessful. | |
| 122311 | Interventional device placed | Interventional device placed. | |
| 122312 | Intervention performed | Intervention performed. | |
| 122313 | Interventional device withdrawn | Interventional device withdrawn. | |
| 122319 | Catheter Size | Catheter Size. | |
| 122320 | Injectate Temperature | Injectate Temperature. | |
| 122321 | Injectate Volume | Injectate Volume. | |
| 122322 | Calibration Factor | Factor by which a measured or calculated value is multiplied to obtain the estimated real-world value. | |
| 122325 | IVUS Report | Intravascular Ultrasound Report. | |
| 122330 | EEM Diameter | External Elastic Membrane (EEM) diameter measured through the center point of the vessel. Center point of the vessel is defined as the center of gravity of the EEM area. The EEM is a discrete interface at the border between the media and the adventitia. | |
| 122331 | Plaque Plus Media Thickness | The distance from intimal leading edge to the external elastic membrane along any line passing through the luminal center, which is defined as the center of gravity of the lumen area. | |
| 122332 | Lumen Perimeter | Planimetered perimeter of the lumen. | |
| 122333 | EEM Cross-Sectional Area | Vessel area measured at the External Elastic Membrane (EEM), a discrete interface at the border between the media and the adventitia. | |
| 122334 | Plaque plus Media Cross-Sectional Area | Area within the EEM occupied by atheroma, regardless of lumen compromise. Plaque plus Media Area = EEM cross-sectional area - vessel lumen cross-sectional area. | |
| 122335 | In-Stent Neointimal Cross-Sectional Area | Measurement of in-stent restenosis. In-Stent Intimal Area = Stent cross-sectional area - vessel lumen cross-sectional area. | |

| Code Value | Code Meaning | Definition |
|------------|--------------------------------------|---|
| 122336 | Vascular Volume measurement length | Longitudinal extent of the Vascular Volume Measurement. This is the distance from the distal edge to the proximal edge of the Volume measurement. |
| 122337 | Relative position | Longitudinal distance from the closest edge of a fiducial feature or reference location to the start of the vascular measurement. This value will be a positive if the measurement is distal to the fiducial feature or reference location, or negative if the measurement is proximal to the fiducial feature or reference location. |
| 122339 | Stent Volume Obstruction | In-Stent Neointimal Volume / Stent Volume. |
| 122340 | Fiducial feature | Reference, normally anatomical, which is used for locating the position of a measurement. |
| 122341 | Calcium Length | Longitudinal calcium length measurement. |
| 122343 | Lumen Eccentricity Index | Measurement of vessel lumen eccentricity. Lumen Eccentricity Index = (maximum vessel lumen diameter - minimum vessel lumen diameter) / maximum vessel lumen diameter. Lumen diameters are measured through the center point of the lumen, which is defined as the center of gravity of the lumen area. |
| 122344 | Plaque plus Media Eccentricity Index | Plaque plus Media Eccentricity Index = (maximum Plaque plus media thickness - minimum Plaque plus media thickness) / maximum Plaque plus media thickness. |
| 122345 | Remodeling Index | Measurement of increase or decrease in EEM area that occurs during the development of atherosclerosis. Remodeling Index = Lesion EEM area / reference EEM area. |
| 122346 | Stent Symmetry Index | Measurement of stent circularity. Stent Symmetry Index = (maximum stent diameter - minimum stent diameter) / maximum stent diameter. |
| 122347 | Stent Expansion Index | Measurement of stent area relative to the reference lumen area. Stent Expansion Index = Minimum stent area / reference vessel lumen cross-sectional area. |
| 122348 | Lumen Shape Index | Measurement of vessel lumen eccentricity. Lumen Shape Index = $(2p * \sqrt{\text{Vessel lumen cross-sectional area} / p}) / \text{Lumen Perimeter}$ 2 Reference: Tobis & Yock, "Intravascular Ultrasound Imaging", Chapter 7. |
| 122350 | Lumen Diameter Ratio | Lumen diameter ratio = minimum vessel lumen diameter / maximum vessel lumen diameter, measured at the same cross section in the vessel. Lumen diameters are measured through the center point of the lumen, which is defined as the center of gravity of the lumen area. |
| 122351 | Stent Diameter Ratio | Stent diameter ratio = Minimum stent diameter / Maximum stent diameter, measured at the same cross section in the vessel. Stent diameters are measured through the center point of the stent, which is defined as the center of gravity of the stent area. |
| 122352 | EEM Diameter Ratio | EEM diameter ratio = minimum EEM diameter / maximum EEM diameter. Measured at the same cross section in the vessel. |
| 122354 | Plaque Burden | Fractional area within the External Elastic Membrane (EEM) occupied by atheroma. Plaque Burden = (EEM area - vessel lumen cross-sectional area) / EEM area. |
| 122355 | Arc of Calcium | Angular measurement of a Calcium deposit with the apex located at the center of the lumen, which is defined as the center of gravity of the lumen area. |
| 122356 | Soft plaque | Plaque characterized by low density or echogenicity. |
| 122357 | In-Stent Neointima | Abnormal thickening of the intima within the stented segment. |
| 122360 | True Lumen | Lumen surrounded by all three layers of the vessel-intima, media, and adventitia. |
| 122361 | False Lumen | A channel, usually parallel to the true lumen, which does not communicate with the true lumen over a portion of its length. |
| 122363 | Plaque Rupture | Plaque ulceration with a tear detected in a fibrous cap. |
| 122364 | Stent Gap | Length of gap between two consecutive stents. |
| 122367 | T-1 Worst | Worst stenosis - the stenosis with the smallest lumen size within a vessel segment. |
| 122368 | T-2 Secondary | 2nd most severe stenosis within a vessel segment. |
| 122369 | T-3 Secondary | 3rd most severe stenosis within a vessel segment. |
| 122370 | T-4 Secondary | 4th most severe stenosis within a vessel segment. |

| Code Value | Code Meaning | Definition |
|------------|----------------------------|--|
| 122371 | EEM Volume | External Elastic Membrane (EEM) volume measured within a specified region. The EEM is a discrete interface at the border between the media and the Adventitia. |
| 122372 | Lumen Volume | Lumen volume measured within a specified region. |
| 122374 | In-Stent Neointimal Volume | The amount of plaque between the lumen and stent, within the stent region; In-stent restenosis. In-Stent Neointimal Volume = Stent Volume - Lumen Volume. |
| 122375 | Native Plaque Volume | The amount of plaque between the stent and the EEM, within the stent region. Native Plaque Volume = EEM Volume - Stent Volume. |
| 122376 | Total Plaque Volume | Total amount of plaque between the EEM and the Lumen, over the entire region that is measured. Total Plaque Volume = EEM Volume - Lumen Volume. |
| 122380 | Proximal Reference | Proximal reference segment measurement site. Typically the site with the largest lumen proximal to a stenosis but within the same segment (usually within 10 mm of the stenosis with no major intervening branches). |
| 122381 | Distal Reference | Distal reference segment measurement site. Typically the site with the largest lumen distal to a stenosis but within the same segment (usually within 10 mm of the stenosis with no major intervening branches). |
| 122382 | Site of Lumen Minimum | Site of the smallest lumen in a vessel. E.g., due to a stenotic lesion. |
| 122383 | Entire Pullback | Measurement region that encompasses the entire vessel imaged in a single pullback acquisition. |
| 122384 | Stented Region | Measurement region occupied by the stent. |
| 122385 | Proximal Stent Margin | Region starting at the proximal edge of the Stent and extending several millimeters (usually 5 mm) proximal to the Stent edge. |
| 122386 | Distal Stent Margin | Region starting at the distal edge of the Stent and extending several millimeters (usually 5 mm) distal to the Stent edge. |
| 122387 | Dissection Classification | Classification of dissections in a vessel. |
| 122388 | Intra-stent Dissection | Separation of neointimal hyperplasia from stent struts, usually seen only after treatment of in-stent restenosis. |
| 122389 | Vulnerable Plaque | Plaque with a thin cap fibrous atheroma that is at increased risk of rupture and thrombosis (or re-thrombosis) and rapid stenosis progression. |
| 122390 | Eroded Plaque | Plaque erosions with no structural defect (beyond endothelial injury) or gap in the plaque. |
| 122391 | Relative Stenosis Severity | Stenosis severity classifications of multiple lesions in a vessel. |
| 122393 | Restenotic Lesion | A finding of a previously treated lesion in which stenosis has reoccurred. |
| 122394 | Fibro-Lipidic Plaque | Loosely packed bundles of collagen fibers with regions of lipid deposition present. Region is cellular and no cholesterol clefts or necrosis are present. Some macrophage infiltration. Increase in extra cellular matrix. |
| 122395 | Necrotic-Lipidic Plaque | Area within the plaque with very low echogenicity separated from the lumen and surrounded by more echogenic structures (fibrous cap). Highly lipidic necrotic region with remnants of foam cells and dead lymphocytes present. No collagen fibers are visible and mechanical integrity is poor. Cholesterol clefts and micro calcifications are visible. |
| 122398 | Intimal Dissection | Dissection limited to the intima or atheroma, and not extending to the media. |
| 122399 | Medial Dissection | Dissection in the arterial Media, extending into the media. |
| 122400 | Simultaneously Acquired | The referenced information was acquired simultaneously with the information in the object in which the reference occurs. |
| 122401 | Same Anatomy | Information acquired for the same anatomic region. |
| 122402 | Same Indication | Information acquired for the same indication. E.g., to elucidate the same diagnostic question. |
| 122403 | For Attenuation Correction | The referenced information was used to correct the data for differential attenuation through different anatomic tissue. |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 122404 | Reconstructed | Value estimated for a vessel in the absence of a stenosis. |
| 122405 | Algorithm Manufacturer | Manufacturer of application used. |
| 122406 | Left Atrial Ejection Fraction by Angiography | Left Atrial Ejection Fraction by Angiography. |
| 122407 | Left Atrial ED Volume | Left Atrial End Diastolic Volume. |
| 122408 | Left Atrial ES Volume | Left Atrial End Systolic Volume. |
| 122410 | Contour Realignment | Contour repositioning of End Diastolic relative to End Systolic contour. |
| 122411 | Threshold Value | The minimum standard deviation to define the hypokinesis and hyperkinesis. |
| 122417 | Regional Abnormal Wall Motion | Report of differentiation of wall motion compared to normal. |
| 122421 | Calibration Object | Object used for Calibration. |
| 122422 | Calibration Method | Method used for Calibration. |
| 122423 | Calibration Object Size | Size of calibration object. |
| 122428 | Area Length Method | Method how long axis is positioned. |
| 122429 | Volume Method | Model for cardiac chamber volume calculation. |
| 122430 | Reference Method | Method to define original diameter of the artery. |
| 122431 | Regression Slope ED | Relation between calculated End Diastolic volume and ventricular End Diastolic volume. The specific meaning is dependent on volume method used. |
| 122432 | Regression Offset ED | Correction factor for the calculated End Diastolic volume and ventricular End Diastolic volume. The specific meaning is dependent on volume method used. |
| 122433 | Regression Slope ES | Relation between calculated End Systolic volume and ventricular End Systolic volume. The specific meaning is dependent on volume method used. |
| 122434 | Regression Offset ES | Correction factor for the calculated End Systolic volume and ventricular End Systolic volume. The specific meaning is dependent on volume method used. |
| 122435 | Regression Volume Exponent | Exponent of volume in regression formula. |
| 122438 | Reference Points | Container for spatial locations or coordinates used for calculation. |
| 122445 | Wall Thickness | Average thickness of the chamber wall in the current view. |
| 122446 | Wall Volume | Volume of the chamber wall estimated from the current view. |
| 122447 | Wall Mass | Mass of the chamber wall (myocardium). |
| 122448 | Wall Stress | Peak systolic stress of chamber wall. |
| 122449 | Centerline Wall Motion Analysis | Method to calculate wall motion [example: Sheehan, 1986]. |
| 122450 | Normalized Chord Length | The length between End Diastolic and End Systolic contour perpendicular on the centerline normalized by a method dependent ventricular perimeter length. The centerline is the line equidistant between the End Diastolic and End Systolic contour [example: Sheehan, 1986]. |
| 122451 | Abnormal Region | The report of the boundaries of the abnormal (hyperkinetic, hypokinetic, a-kinetic) regions associated with the territory of the artery [example: Sheehan, 1986]. |
| 122452 | First Chord of Abnormal Region | The chord number specifying the begin of abnormal region [example: Sheehan, 1986]. |
| 122453 | Last Chord of Abnormal Region | The chord number specifying the end of abnormal region [example: Sheehan, 1986]. |
| 122459 | Territory Region Severity | Severity at the regional abnormality extent [example: Sheehan, 1986]. |
| 122461 | Opposite Region Severity | Severity at the opposite regional abnormality extent [example: Sheehan, 1986]. |
| 122464 | LAD Region in RAO Projection | Based on a total number of chords of 100 and RAO project the range of chords belonging to this circumferential extent lies between 5 - 85. [Sheehan, 1986]. |
| 122465 | RCA Region in ROA Projection | Based on a total number of chords of 100 and RAO project the range of chords belonging to this circumferential extent lies between 25 - 85. [Sheehan, 1986]. |

| Code Value | Code Meaning | Definition | |
|------------|--|--|--|
| 122466 | Single LAD Region in RAO Projection | Based on a total number of chords of 100 and RAO projection the range of chords belonging to this regional extent lies between 10 - 66 (hypokinetic) and 67 - 80 (hyperkinetic). [Sheehan, 1986]. | |
| 122467 | Single RCA Region in RAO Projection | Based on a total number of chords of 100 and RAO projection the range of chords belonging to this regional extent lies between 51 - 80 (hypokinetic) and 10 - 50 (hyperkinetic). [Sheehan, 1986]. | |
| 122468 | Multiple LAD Region in RAO Projection | Based on a total number of chords of 100 and RAO projection the range of chords belonging to this regional extent lies between 10 - 58 (hypokinetic) and 59 - 80 (hyperkinetic). [Sheehan, 1986]. | |
| 122469 | Multiple RCA Region in RAO Projection | Based on a total number of chords of 100 and RAO projection the range of chords belonging to this regional extent lies between 59 - 80 (hypokinetic) and 10 - 58 (hyperkinetic). [Sheehan, 1986]. | |
| 122470 | LAD Region in LAO Projection | Based on a total number of chords of 100 and LAO projection the range of chords belonging to this regional extent lies between 50 - 100 (hypokinetic) and 20 - 49 (hyperkinetic). [Sheehan, 1986]. | |
| 122471 | RCA Region in LAO Projection | Based on a total number of chords of 100 and LAO projection the range of chords belonging to this regional extent lies between 19 - 67 (hypokinetic) and 68 - 100 (hyperkinetic). [Sheehan, 1986]. | |
| 122472 | CFX Region in LAO Projection | Based on a total number of chords of 100 and LAO projection the range of chords belonging to this regional extent lies between 38 - 74 (hypokinetic) and 75 - 100 (hyperkinetic). [Sheehan, 1986]. | |
| 122473 | Circular Method | Method based on assumption that the image object is circular. | |
| 122474 | Densitometric Method | Method based on the gray value distribution of the image. | |
| 122475 | Center of Gravity | End Systolic contour realigned to End Diastolic contour based on the center of gravity. | |
| 122476 | Long Axis Based | End Systolic contour realigned to End Diastolic contour based on the mid point of the long axis. The long axis end points are defined as the posterior and apex. | |
| 122477 | No Realignment | No Contour Realignment applied. | |
| 122480 | Vessel Lumen Cross-Sectional Area | Calculated Vessel Lumen Cross-Sectional Area based on the referenced method. | |
| 122481 | Contour Start | Location of the beginning of a contour. | |
| 122482 | Contour End | Location of the end of a contour. | |
| 122485 | Sphere | Sphere is used as calibration object. | |
| 122486 | Geometric Isocenter | Object of interest in isocenter of image and pixel separation is calculated from geometric data. | |
| 122487 | Geometric Non-Isocenter | Object of interest not in isocenter of image and pixel separation is calculated from geometric data and out of isocenter distances. | |
| 122488 | Calibration Object Used | Object used for calibration. E.g., sphere. | |
| 122489 | Curve Fitted Reference | Application dependent method to calculate the reference diameter based on the multiple diameter values. | |
| 122490 | Interpolated Local Reference | Application dependent method to calculate reference by interpolation, based on the diameter of two or more user defined reference positions. | |
| 122491 | Mean Local Reference | Application dependent method to calculate by averaging the reference, based on the diameter of one or more user defined reference positions. | |
| 122493 | Radial Based Wall Motion Analysis | Method to calculate wall motion based on the lengths of the radials in the predefined regions [Ingels]. | |
| 122495 | Regional Contribution to Ejection Fraction | Contribution of Region to global Ejection factor based on radial or landmark based wall motion method. | |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 122496 | Radial Shortening | The reduction of area between End Systolic and End Diastolic based on radial wall motion analysis. |
| 122497 | Landmark Based Wall Motion Analysis | Method to calculate wall motion based on the move of landmarks on the wall [Slager]. |
| 122498 | Slice Contribution to Ejection Fraction | Contribution to the ejection fraction of a specific slice region [Slager]. |
| 122499 | Frame to Frame Analysis | Method to calculate volumes of heart chambers for every image in a range. |
| 122501 | Area of closed irregular polygon | The area is derived by considering a set of coordinates as a closed irregular polygon, accounting for inner angles. The exact method, such as by decomposition into triangles or quadrilaterals, is not specified, since it does not affect the numeric result, apart from the effect of numeric precision during computation of intermediate results. |
| 122502 | Area of a closed NURBS | The area is derived by using a set of coordinates as control points for a Non Uniform Rational B-Spline (NURBS). |
| 122503 | Integration of sum of closed areas on contiguous slices | The volume derived by integrating the sum of the areas on adjacent slices across the slice interval; each area is defined by a regular planar shape or by considering a set of coordinates as a closed irregular polygon, accounting for inner angles. |
| 122505 | Calibration | Procedure used to calibrate measurements or measurement devices. |
| 122507 | Left Contour | Left contour of lumen (direction proximal to distal). |
| 122508 | Right Contour | Right contour of lumen (direction proximal to distal). |
| 122509 | Diameter Graph | Ordered set of diameters values derived from contours (direction proximal to distal). |
| 122510 | Length Luminal Segment | Length Luminal Segment. |
| 122511 | Graph Increment | Increment value along X-axis in Diameter Graph. |
| 122516 | Site of Maximum Luminal | Location of the maximum lumen area in a lesion or vessel. |
| 122517 | Densitometric Luminal Cross-sectional Area Graph | Ordered set of cross-sectional Vessel Lumen Cross-Sectional Area values derived from contours (direction proximal to distal) based on densitometric method. |
| 122528 | Position of Proximal Border | Position of proximal border of segment relative to the contour start (proximal end of analysis area). |
| 122529 | Position of Distal Border | Position of distal border of segment relative to the contour start (proximal end of analysis area). |
| 122542 | Plaque Area | Longitudinal cross sectional area of plaque. |
| 122544 | Diameter Symmetry | Symmetry of stenosis (0 = complete asymmetry, 1 = complete symmetry); see Section T.2 "Definition of Diameter Symmetry with Arterial Plaques" in PS3.17. |
| 122545 | Area Symmetry | Symmetry of plaque (0 = complete asymmetry, 1 = complete symmetry); see Section T.2 "Definition of Diameter Symmetry with Arterial Plaques" in PS3.17. |
| 122546 | Inflow Angle | The average slope of the diameter function between the position of the minimum luminal diameter and the position of the proximal border of the segment. |
| 122547 | Outflow Angle | The average slope of the diameter function between the position of the minimum luminal diameter and the position of the distal border of the segment. |
| 122548 | Stenotic Flow Reserve | The relation between coronary pressure and coronary flow. |
| 122549 | Poiseuille Resistance | Poiseuille Resistance at the location of the stenosis. |
| 122550 | Turbulence Resistance | Turbulence Resistance at the location of the stenosis. |
| 122551 | Pressure Drop at SFR | Pressure drop over the stenosis at maximum heart output. |
| 122554 | Segmentation Method | Method for selection of vessel sub-segments. |
| 122555 | Estimated Normal Flow | Estimate of the volume of blood flow in the absence of stenosis. |
| 122558 | Area Length Kennedy | Area Length method defined by Kennedy [Kennedy, 1970]. |

| Code Value | Code Meaning | Definition | |
|------------|--|--|--|
| 122559 | Area Length Dodge | Area Length method defined by Dodge [Dodge, 1960]. | |
| 122560 | Area Length Wynne | Area Length method defined by Wynne [Wynne]. | |
| 122562 | Multiple Slices | Volume method based on multiple slice. | |
| 122563 | Boak | Volume method defined by Boak [Boak]. | |
| 122564 | TS Pyramid | Volume method defined by Ferlinz [Ferlinz]. | |
| 122565 | Two Chamber | Volume method defined by Graham [Graham]. | |
| 122566 | Parallelepiped | Volume method defined by Arcilla [Arcilla]. | |
| 122572 | BSA ^{1.219} | Corrected Body Surface area for indexing the hemodynamic measurements for a pediatric patient. | |
| 122574 | Equidistant method | Method for selecting sub-segments that are all of the same length. | |
| 122575 | User selected method | Manually selected start and end of sub-segment. | |
| 122582 | Left ventricular posterobasal segment | Left ventricular posterobasal segment. | |
| 122600 | Cardiovascular Analysis Report | Report of a Cardiovascular Analysis, typically from a CT or MR study. | |
| 122601 | Ventricular Analysis | Ventricular Analysis. | |
| 122602 | Myocardial Perfusion Analysis | Myocardial Perfusion Analysis. | |
| 122603 | Calcium Scoring Analysis | Calcium Scoring Analysis. | |
| 122604 | Flow Quantification | Flow Quantification Analysis. | |
| 122605 | Vascular Morphological Analysis | Vascular Morphological Analysis. | |
| 122606 | Vascular Functional Analysis | Vascular Functional Analysis. | |
| 122607 | Thickening Analysis | Analysis of myocardial wall thickening. | |
| 122608 | Absolute Values Of Ventricular Measurements | Section Heading for absolute values of ventricular measurements. | |
| 122609 | Normalized Values Of Ventricular Measurements | Results of normalizing ventricular measurements. | |
| 122611 | Reference Point | Reference Point of a measurement. | |
| 122612 | Central breathing position | Central breathing position between inspiration and expiration. | |
| 122616 | Peak Ejection Rate | Peak of the ventricular ejection rate. | |
| 122617 | Peak Ejection Time | Time of the peak of ventricular ejection. | |
| 122618 | Peak Filling Rate | Peak of the fluid filling rate. | |
| 122619 | Peak Filling Time | Time interval until time of peak filling from a given reference point. E.g., end systole. | |
| 122620 | Papillary Muscle Excluded | Papillary muscle was excluded from the measurement. | |
| 122621 | Papillary Muscle Included | Papillary muscle was included in the measurement. | |
| 122624 | Wall Thickness Ratio end-systolic to end-diastolic | The ratio of the end-systolic wall thickness compared to the end-diastolic wall thickness. | |
| 122627 | Curve Fit Method | The method to smooth a ventricular volume as a function of time. | |
| 122628 | Baseline Result Correction | Baseline correction used in the calculation of the results. | |
| 122631 | Signal Earliest Peak Time | The time in a dynamic set of images at which the first peak of the signal is observed for the analyzed myocardial wall segments. | |
| 122633 | Signal Increase Start Time | This is the time at which the signal begins to increase. | |
| 122634 | Signal Time to Peak | Time interval between the beginning of the signal increase to the time at which the signal intensity reaches its first maximum in a dynamic set of images. | |
| 122635 | MR Perfusion Peak | Peak of the MR perfusion signal. | |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 122636 | MR Perfusion Slope | Signal intensity as a function of time. It is the change in the signal intensity divided by the change in the time. |
| 122637 | MR Perfusion Time Integral | MR perfusion time integral from baseline (foot time) to earliest peak. |
| 122638 | Signal Baseline Start | First time point in a dynamic set of images used in the calculation of the baseline signal intensity for each myocardial wall segment. |
| 122639 | Signal Baseline End | Last time point in a dynamic set of images used in the calculation of the baseline signal intensity for each myocardial wall segment. |
| 122640 | Image Interval | The time delta between images in a dynamic set of images. |
| 122642 | Velocity Encoding Minimum Value | The minimum velocity encoded by the phase encoding gradient. |
| 122643 | Velocity Encoding Maximum Value | The maximum velocity encoded by the phase encoding gradient. |
| 122645 | Net Forward Volume | Forward volume-reverse volume. |
| 122650 | Area Based Method | Area Based Method for estimating volume or area. |
| 122651 | Diameter Based Method | Diameter Based Method for estimating volume, area or diameter. |
| 122652 | Volume Based Method | Volume Based Method for estimating volume. |
| 122655 | NASCET | A method of diameter measurements according to NASCET (North American Symptomatic Carotid Endarterectomy Trial). |
| 122656 | ECST | A method of diameter measurements according to ECST (European Carotid Surgery Trial). |
| 122657 | Agatston Score Threshold | Agatston Score Threshold. |
| 122658 | Calcium Mass Threshold | Calcium Mass Threshold. |
| 122659 | Calcium Scoring Calibration | Calcium Scoring Calibration. |
| 122660 | Calcium Volume | Calcium Volume. |
| 122661 | Calcium Mass | Calcium Mass. |
| 122664 | Late Contrast Enhancement | Delayed hyperenhancement of a tissue observed in an image acquired after injection of contrast media. |
| 122665 | Time interval since injection of contrast media | Time interval since injection of contrast media. |
| 122666 | Time relative to R-wave peak | Time relative to R-wave peak. |
| 122667 | Blood velocity vs. time of cardiac cycle | Relationship between blood velocity and time relative to R-wave peak. |
| 122668 | Time interval since detection of contrast bolus | Time interval since detection of contrast bolus. |
| 122670 | Papillary Muscle Included/Excluded | Indicates if the papillary muscle was included or excluded in the measurement. |
| 122675 | Anterior-Posterior | Anterior to Posterior direction. |
| 122680 | endoleak | Persistent flow of blood into the stent-grafting. |
| 122683 | Stent Fracture | Fracture of a stent. |
| 122684 | Stent Disintegration | Disintegration of a stent. |
| 122685 | Stent Composition | Material that a stent consists of. |
| 122686 | Parent Vessel Finding | Finding about the characteristics of the parent vessel of a vessel. |
| 122687 | Site of Lumen Maximum | Site of Maximal lumen diameter of a vessel. |
| 122698 | X-Concept | The physical domain (time, space, etc.) to the horizontal axis of the graphical presentation. |
| 122699 | Y-Concept | The physical domain (time, space, etc.) to the vertical axis of the graphical presentation. |
| 122700 | Indications for Pharmacological Stress | Indications for Pharmacological Stress. |

| Code Value | Code Meaning | Definition | |
|------------|--|--|--|
| 122701 | Procedure time base | Reference time for measurement of elapsed time in a procedure. | |
| 122702 | Treadmill speed | Treadmill speed. | |
| 122703 | Treadmill gradient | Treadmill gradient. | |
| 122704 | Ergometer power | Ergometer power. | |
| 122705 | Pharmacological Stress Agent Dose Rate | Pharmacological Stress Agent Dose Rate. | |
| 122706 | Rating of Perceived Exertion | Rating of Perceived Exertion. | |
| 122707 | Number of Ectopic Beats | Number of ectopic beats during a period of collection. | |
| 122708 | Double Product | Heart rate times systolic blood pressure. | |
| 122709 | Activity workload | Physical activity workload (intensity) measurement. | |
| 122710 | Time since start of stage | Elapsed time at stage. | |
| 122711 | Exercise duration after stress agent injection | Exercise duration after stress agent injection. | |
| 122712 | Imaging Start DateTime | Imaging Start DateTime. | |
| 122713 | Attenuation correction method | Attenuation correction method. | |
| 122715 | Pharmacological Stress Agent Dose | Pharmacological Stress Agent Dose. | |
| 122716 | Maximum Power Output Achieved | Maximum power output achieved during course of procedure. | |
| 122717 | Peak activity workload | Peak physical activity intensity measurement during course of procedure. | |
| 122718 | Peak Double Product | Peak Double Product measurement during course of procedure. | |
| 122720 | OSEM algorithm | Ordered subsets expectation maximization reconstruction algorithm. | |
| 122721 | Chang method | Chang attenuation correction method. | |
| 122726 | Algorithmic attenuation correction | Attenuation correction not based on image-based attenuation maps. | |
| 122727 | NM transmission attenuation correction | NM transmission attenuation correction. | |
| 122728 | CT-based attenuation correction | CT-based attenuation correction. | |
| 122729 | No Attenuation Correction | No attenuation correction. | |
| 122730 | Bazett QTc Algorithm | Bazett QT Correction Algorithm; $QT/(RR^{0.5})$; Bazett HC. "An analysis of the time-relations of electrocardiograms" <i>Heart</i> 7:353-370 (1920). | |
| 122731 | Hodges QTc Algorithm | Hodges QT Correction Algorithm; $QT + 1.75 (\text{heart rate} - 60)$; Hodges M, Salerno Q, Erlie D. "Bazett's QT correction reviewed. Evidence that a linear QT correction for heart rate is better." <i>J Am Coll Cardiol</i> 1:694 (1983). | |
| 122732 | Fridericia QTc Algorithm | Fridericia QT Correction Algorithm; $QT/(RR^{0.333})$; Fridericia LS. "The duration of systole in the electrocardiogram of normal subjects and of patients with heart disease" <i>Acta Med Scand</i> 53:469-486 (1920). | |
| 122733 | Framingham QTc Algorithm | Framingham QT Correction Algorithm; $QT + 0.154 (1 - RR)$; Sagie A, Larson MG, Goldberg RJ, <i>et al.</i> "An improved method for adjusting the QT interval for heart rate (the Framingham Heart Study)." <i>Am J Cardiol</i> 70:797-801(1992). | |
| 122734 | Borg RPE Scale | Borg Rating of Perceived Exertion Scale, range 6:20. | |
| 122735 | Borg CR10 Scale | Borg category ratio scale, open ended range with nominal range 0:10. | |
| 122739 | Overall study quality | Overall study quality. | |
| 122740 | Excellent image quality | Excellent image quality. | |
| 122741 | Good image quality | Good image quality. | |
| 122742 | Poor image quality | Poor image quality. | |
| 122743 | Body habitus attenuation | Image attenuation due to body physique (overweight). | |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 122744 | Breast attenuation | Image attenuation due to breast tissue. |
| 122745 | Diaphragmatic attenuation | Image attenuation due to diaphragm. |
| 122748 | False positive defect finding | Finding of a defect is incorrect. E.g., from automated analysis. |
| 122750 | Non-diagnostic - low heart rate | ECG is non-diagnostic due to low heart rate. |
| 122751 | Non-diagnostic - resting ST abnormalities | ECG is non-diagnostic due to resting ST abnormalities. |
| 122752 | Non-diagnostic - ventricular pacing or LBBB | ECG is non-diagnostic due to ventricular pacing or Left Bundle Branch Block. |
| 122753 | Non-diagnostic ECG | ECG is non-diagnostic for presence of acute coronary syndrome. |
| 122755 | Strongly positive | Strongly positive finding. |
| 122756 | Strongly positive - ST elevation | Strongly positive finding - ST elevation. |
| 122757 | ST Depression - Horizontal | Finding of ST segment depression with no slope. |
| 122758 | ST Depression - Upsloping | Finding of ST segment depression with upslope. |
| 122759 | ST Depression - Downsloping | Finding of ST segment depression with downslope. |
| 122760 | Stress test score | Stress test score. |
| 122762 | Number of diseased vessel territories | Number of diseased vessel territories. |
| 122764 | Weight exceeds equipment limit | Patient weight exceeds equipment limit. |
| 122768 | Difference in Ejection Fraction | Difference in Ejection Fraction. |
| 122769 | Difference in ED LV Volume | Difference in End Diastolic Left Ventricular Volume. |
| 122770 | Ratio of achieved to predicted maximal oxygen consumption | Ratio of achieved to predicted maximal oxygen consumption. |
| 122771 | Ratio of achieved to predicted functional capacity | Ratio of achieved to predicted functional capacity. |
| 122772 | Aerobic index | Workload (Watts) at target heart rate divided by body weight. |
| 122773 | ST/HR Index | ST depression at peak exercise divided by the exercise-induced increase in heart rate [Kligfield P, Ameisen O, Okin PM. "Heart rate adjustment of ST segment depression for improved detection of coronary artery disease." Circulation 1989;79:245-55.]. |
| 122775 | Agreement with prior findings | Agreement with prior findings. |
| 122776 | Disagreement with prior findings | Disagreement with prior findings. |
| 122781 | Rest thallium/stress technetium procedure | Nuclear Medicine Rest thallium/stress technetium procedure. |
| 122782 | Rest technetium/stress technetium 1 day procedure | Nuclear Medicine Rest technetium/stress technetium 1 day procedure. |
| 122783 | Rest technetium/stress technetium 2 day procedure | Nuclear Medicine Rest technetium/stress technetium 2 day procedure. |
| 122784 | Stress technetium/rest technetium 1 day procedure | Nuclear Medicine Stress technetium/rest technetium 1 day procedure. |
| 122785 | NM Myocardial Viability procedure | Nuclear Medicine Myocardial Viability procedure. |
| 122791 | PET Myocardial Perfusion, Rest only | Positron Emission Tomography Perfusion Imaging procedure, rest only. |
| 122792 | PET Myocardial Perfusion, Stress only | Positron Emission Tomography Perfusion Imaging procedure, stress only. |
| 122793 | PET Myocardial Perfusion, Rest and Stress | Positron Emission Tomography Perfusion Imaging procedure, rest and stress. |

| Code Value | Code Meaning | Definition | |
|------------|--|---|----------------------------|
| 122795 | PET Myocardial Viability, Rest only | Positron Emission Tomography Myocardial Viability procedure, rest only. | |
| 122796 | PET Myocardial Viability, Stress only | Positron Emission Tomography Myocardial Viability procedure, stress only. | |
| 122797 | PET Myocardial Viability, Rest and Stress | Positron Emission Tomography Myocardial Viability procedure, rest and stress. | |
| 122799 | Anginal Equivalent | Group of symptoms heralding angina pectoris that does not include chest pain (dyspnea, diaphoresis, profuse vomiting in a diabetic patient, or arm or jaw pain). | |
| 123001 | <i>Radiopharmaceutical</i> | <i>Active ingredient (molecular) used for radioactive tracing.</i> | Reti Rep "Ra agen |
| 123003 | Radiopharmaceutical Start DateTime | DateTime of radiopharmaceutical administration to the patient for imaging purposes. | |
| 123004 | Radiopharmaceutical Stop DateTime | Ending DateTime of radiopharmaceutical administration to the patient for imaging purposes. | |
| 123005 | Radiopharmaceutical Volume | Volume of radiopharmaceutical administered to the patient. | |
| 123006 | Radionuclide Total Dose | Total amount of radionuclide administered to the patient at Radiopharmaceutical Start Time. | |
| 123007 | Radiopharmaceutical Specific Activity | Activity per unit mass of the radiopharmaceutical at Radiopharmaceutical Start Time. | |
| 123009 | Radionuclide Syringe Counts | Pre-injection syringe acquisition count rate. | |
| 123010 | Radionuclide Residual Syringe Counts | Syringe acquisition count rate following patient injection. | |
| 123011 | Contrast/Bolus Agent | Contrast or bolus agent. | |
| 123012 | Pre-Medication | Medication to be administered at the beginning of the Scheduled Procedure Step. | |
| 123014 | Target Region | Anatomic Region to be imaged. | |
| 123015 | Imaging Direction | Direction of imaging (includes view, transducer orientation, patient orientation, and/or projection). | |
| 123016 | Imaging Conditions | Imaging condition for refinement of protocol (includes secondary posture, instruction, X-Ray / electron beam energy or nuclide, and ultrasound modes), as used in JJ1017 v3.0. | |
| 123019 | Caudal 10 degree distal-cranioproximal oblique | Caudal 10 degree distal-cranioproximal oblique radiographic projection, defined per Smallwood et al. | |
| 123101 | Neighborhood Analysis | Surface processing utilizing predefined weighting factors (i.e., kernels) applied to different data values depending on their location relative to other data values within the data domain. Includes Low Pass, High Pass, Gaussian, Laplacian, etc. | |
| 123102 | Adaptive Filtering | Surface processing applied non-uniformly utilizing a priori knowledge of the system and/or relative locations of the data values within the data domain. Example: Neighborhood analysis where weighting factors are modified continuously based on predefined criteria. | |
| 123103 | Edge Detection | Surface processing through the exploitation of discontinuities in the data values within their domain. Includes Gradient filters. | |
| 123104 | Morphological Operations | Surface processing based on the connectivity of values based on the shape or structure of the data values within their domain. Includes erode, dilate, etc. | |
| 123105 | Histogram Analysis | Surface processing applied to the distribution of the data values. Includes thresholding, Bayesian Classification, etc. | |
| 123106 | Multi-Scale/Resolution Filtering | Surface processing accomplished through varying the data domain size. Include deformable models. | |

| Code Value | Code Meaning | Definition |
|------------|------------------------------------|--|
| 123107 | Cluster Analysis | Surface processing accomplished by combining data values based on their relative location within their domain or value distribution. Includes K- and C-means, Fuzzy Analysis, Watershed, Seed Growing, etc. |
| 123108 | Multispectral Processing | Surface processing accomplished through the weighted combination of multiple data sets. Includes Principle Component Analysis, linear and non-linear weighed combinations, etc. |
| 123109 | Manual Processing | Surface processing accomplished through human interaction. Region drawing. |
| 123110 | Artificial Intelligence | Surface processing using Artificial Intelligence techniques, such as Machine Learning, Neural Networks, etc. |
| 123111 | Deformable Models | Surface processing using Deformable Model techniques, such as Point Distribution Models, Level Sets, Simplex Meshes, etc. |
| 125000 | OB-GYN Ultrasound Procedure Report | Document Title of OB-GYN procedure report. |
| 125001 | Fetal Biometry Ratios | Report section for assessment of fetal growth using ratios and indexes. |
| 125002 | Fetal Biometry | Report section for assessment of fetal growth. |
| 125003 | Fetal Long Bones | Report section for assessment of fetal growth by long bone measurements. |
| 125004 | Fetal Cranium | Report section for assessment of fetal cranium growth. |
| 125005 | Biometry Group | Biometric assessment of. |
| 125006 | Biophysical Profile | Report section for assessment of biophysical observations that evaluate fetal well-being according to Manning, Antepartum Fetal Evaluation: Development of a Fetal Biophysical Profile Score, Am. J Obstet Gynecol, 1980;136:787. |
| 125007 | Measurement Group | A grouping of related measurements and calculations that share a common context. |
| 125008 | Fetus Summary | Report section for fetus specific procedure summary observations. |
| 125009 | Early Gestation | Report section for assessment of early gestation fetus. |
| 125010 | Identifier | A name to differentiate between multiple instances of some item. |
| 125011 | Pelvis and Uterus | Report section for assessment of pelvis and uterus. |
| 125012 | Growth Percentile rank | The rank of a measured growth indicator relative to a normal distribution expressed as a percentage. |
| 125013 | Growth Z-score | The rank of a measured growth indicator relative to a normal distribution expressed as the dimensionless quantity $z = (x-m) / s$ where $(x-m)$ is the deviation of the value x , from the distribution mean, m , and s is the standard deviation of the distribution. |
| 125015 | Fetus Characteristics | Fetus characteristics (findings section title). |
| 125016 | Fetal Measurements | Fetal Measurements (findings section title). |
| 125021 | Frame of Reference Identity | There is a defined equivalence between the Frame of Reference of the Registration SOP instance and the Frame of Reference of the referenced images. |
| 125022 | Fiducial Alignment | The registration is based on fiducials that represent patient or specimen features identified in each data set. |
| 125023 | Acquisition Equipment Alignment | Registration based on a-priori knowledge of the acquisition geometry. This is not an object registration as in fiducial registration. Rather, it specifies a known spatial relationship. |
| 125024 | Image Content-based Alignment | Computed registration based on global image information. |
| 125025 | Visual Alignment | Registration by visually guided manipulation. |
| 125030 | Inter-Hemispheric Plane | A plane fiducial that specifies the location of the plane separating the two hemispheres of the brain. |
| 125031 | Right Hemisphere Most Anterior | A point fiducial that specifies the location in the plane perpendicular to the Anterior-Posterior-Commissure axis and tangential to the anterior limit of the right brain hemisphere. |
| 125032 | Right Hemisphere Most Posterior | A point fiducial that specifies the location in the plane perpendicular to the Anterior-Posterior-Commissure axis and tangential to the posterior limit of the right brain hemisphere. |

| Code Value | Code Meaning | Definition | |
|------------|--|--|---------------------------|
| 125033 | Right Hemisphere Most Superior | A point fiducial that specifies the location in the plane perpendicular to the Anterior-Posterior-Commissure axis and tangential to the superior limit of the right brain hemisphere. | |
| 125034 | Right Hemisphere Most Inferior | A point fiducial that specifies the location in the plane perpendicular to the Anterior-Posterior-Commissure axis and tangential to the inferior limit of the Right brain hemisphere. | |
| 125035 | Left Hemisphere Most Anterior | A point fiducial that specifies the location in the plane perpendicular to the Anterior-Posterior-Commissure axis and tangential to the anterior limit of the left brain hemisphere. | |
| 125036 | Left Hemisphere Most Posterior | A point fiducial that specifies the location in the plane perpendicular to the Anterior-Posterior-Commissure axis and tangential to the posterior limit of the left brain hemisphere. | |
| 125037 | Left Hemisphere Most Superior | A point fiducial that specifies the location in the plane perpendicular to the Anterior-Posterior-Commissure axis and tangential to the superior limit of the left brain hemisphere. | |
| 125038 | Left Hemisphere Most Inferior | A point fiducial that specifies the location in the plane perpendicular to the Anterior-Posterior-Commissure axis and tangential to the inferior limit of the left brain hemisphere. | |
| 125040 | Background | That which is not part of an object. | E.g. (that with a Se Type |
| 125041 | Registration Input | A segment for use as an input to an image registration process. E.g., to specify the bounding region for determining a Frame of Reference Transformation Matrix. | |
| 125100 | Vascular Ultrasound Procedure Report | Root Document Title for ultrasound vascular evidence reports (worksheets). | |
| 125101 | Vessel Branch | The particular vessel branch, such as the inferior, medial or lateral. | |
| 125102 | Graft Type | A descriptor or elaboration of the type of graft. | |
| 125105 | Measurement Orientation | A modifier to a 2D distance measurement to describe its orientation. E.g., a vascular distance measurement for a vessel plaque could have a modifier Transverse or Longitudinal. | |
| 125106 | Doppler Angle | The angle formed between the Doppler beam line and the direction of blood flow within a region of interest in the body defined by the sample volume. | |
| 125107 | Sample Volume Depth | The depth of the center of the Doppler sample volume measured from skin line along the Doppler line. | |
| 125195 | Pediatric Cardiac Ultrasound Report | Pediatric Cardiac Ultrasound Report (document title). | |
| 125196 | Fetal Cardiac Ultrasound Report | Fetal Cardiac Ultrasound Report (document title). | |
| 125197 | Adult Congenital Cardiac Ultrasound Report | Adult Congenital Cardiac Ultrasound Report (document title). | |
| 125200 | Adult Echocardiography Procedure Report | Document title of adult echocardiography procedure (evidence) report. | |
| 125201 | Illustration of Finding | An image that is a pictorial representation of findings. The concept is typically used as a purpose of reference to an image, such as a depiction of myocardium segments depicting wall motion function. | |
| 125202 | LV Wall Motion Score Index | The average of all scored (non-zero) Left Ventricle segment wall motion scores. | |
| 125203 | Acquisition Protocol | A type of clinical acquisition protocol for creating images or image-derived measurements. Acquisition protocols may be specific to a manufacturer's product. | |
| 125204 | Area-length biplane | Method for calculating left ventricular volume from two orthogonal views containing the true long axis (usually the apical 4 and 2 chamber views). Volume = $[pL_1 / 6] * [(4A_1) , (pL_1)] * [(4A_2) , (pL_2)]$. | |
| 125205 | Area-Length Single Plane | Method for calculating left ventricular volume from a view containing the true long axis (usually the apical 4-chamber view). Volume = $[8(A)^2]_L [3pL]$. | |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 125206 | Cube | Method (formula) for calculating left ventricle volumes and function derivatives (EF, SV, SI, etc.) that estimates the volume as the cube of diameter. |
| 125207 | Method of Disks, Biplane | Method of calculating volume based on the summation of disk volumes. The disk axis is parallel to the left ventricular long axis and using a disk diameter averaged from the two chamber and four chamber views. |
| 125208 | Method of Disks, Single Plane | Method of calculating volume based on the summation of disk volumes. The disk axis is parallel to the left ventricular long axis with disk diameter taken from the four-chamber view. |
| 125209 | Teichholz | Method (formula) for calculating left ventricle volumes and function derivatives (EF, SV, SI, etc.) Volume = $[7.0/(2.4+D)] \cdot D^3$. |
| 125210 | Area by Pressure Half-Time | Mitral valve area (cm ²) by Pressure Half-time = 220 (cm ² .ms) / PHT (ms). |
| 125211 | Biplane Ellipse | Area = $P/4 \times d1 \times d2$ d1 = anterior/posterior axis d2 = medial/lateral axis <i>Hagen-Ansert, Sandra L., Textbook of Diagnostic Ultrasound, ed. 3, The C.V.Mosby Co., 1989, p. 73. .</i> |
| 125212 | Continuity Equation | For conduits in series ("in continuity"), volume flow is equal: $A1 \cdot V1 = A2 \cdot V2$. where V is the velocity. |
| 125213 | Continuity Equation by Mean Velocity | For conduits in series ("in continuity"), volume flow is equal: $A1 \cdot V1 = A2 \cdot V2$. where V is the mean velocity. |
| 125214 | Continuity Equation by Peak Velocity | For conduits in series ("in continuity"), volume flow is equal: $A1 \cdot V1 = A2 \cdot V2$. where V is the peak velocity. |
| 125215 | Continuity Equation by Velocity Time Integral | For conduits in series ("in continuity"), volume flow is equal: $A1 \cdot V1 = A2 \cdot V2$. where V is the velocity time integral. |
| 125216 | Proximal Isovelocity Surface Area | Utilizes aliasing velocity (by color Doppler) of flow into an orifice (often regurgitant or stenotic) to measure instantaneous flow rate, orifice area, and flow volume. The instantaneous flow rate = $(2\pi r^2 v_{av}) \cdot (\alpha \pi)$ where v_{av} is the constant velocity known as aliasing velocity at radius r , v_p is the peak velocity at the orifice, and α is the angle in radians of the constant velocity surface. Estimated Orifice area = Flow rate / v_p , where v_p is the peak velocity at the orifice and the flow rate is the PISA peak flow rate. The volume flow is then the product of the orifice area and Velocity Time Integral. |
| 125217 | Full Bernoulli | $\Delta P = 4 \cdot (V1^2 - V2^2)$. |
| 125218 | Simplified Bernoulli | $\Delta P = 4 \cdot V2^2$. |
| 125219 | Doppler Volume Flow | Volume flow = Conduit CSA * (Velocity Time Integral). |
| 125220 | Planimetry | Direct measurement of an area by tracing an irregular perimeter. |
| 125221 | Left Ventricle Mass by M-mode | Mass = $1.04 \cdot [(ST+LVID+PWT)^3 - LVID^3] \cdot 0.8 + 0.6$. Mass unit is grams and length in cm. |

| Code Value | Code Meaning | Definition | |
|------------|---|--|---------------------|
| 125222 | Left Ventricle Mass by Truncated Ellipse | $\text{Mass} = 1.05P ((b + t)^2 \times (2/3 (a + t) + d - d^3 / 3(a + t)^2) - b^2 (2/3a + d - d^3 / 3a^2))$ <p>a = Semi-major axis from widest minor axis radius to apex. b = Short axis radius calculated from short axis cavity area t = Myocardial thickness calculated from short axis epicardial and cavity areas d = Truncated semi-major axis from widest short axis diameter to plane of mitral annulus. Mass unit is grams and length in cm.</p> <p><i>Schiller NB et al: Recommendations for quantification of the left ventricle by two-dimensional echocardiography, American Society of Echocardiography 2:364, 1989.</i></p> | |
| 125223 | 4 Point Segment Finding Scale | A four point, echocardiographic numeric scoring scheme of myocardium segments based on evaluation of wall motion and ventricle morphology. <i>Recommendations for Quantitation of the Left Ventricle by Two-Dimensional Echocardiography</i> , Journal of the American Society of Echocardiography, 2:358-367, 1989. | |
| 125224 | 5 Point Segment Finding Scale | A five point, echocardiographic numeric scoring scheme of myocardium segments based on evaluation of wall motion and ventricle morphology. <i>Recommendations for Quantitation of the Left Ventricle by Two-Dimensional Echocardiography</i> , Journal of the American Society of Echocardiography, 2:358-367, 1989. | |
| 125225 | 5 Point Segment Finding Scale With Graded Hypokinesis | A five point, echocardiographic numeric scoring scheme of myocardium segments based on evaluation of wall motion and ventricle morphology, with severity of hypokinesis graded. <i>Recommendations for Quantitation of the Left Ventricle by Two-Dimensional Echocardiography</i> , Journal of the American Society of Echocardiography, 2:358-367, 1989. | |
| 125226 | Single Plane Ellipse | Method of estimating volume from a planar ellipse. Equivalent to Biplane Ellipse with an assumption that the ellipse in the orthogonal plane has identical major and minor diameters. | |
| 125227 | Modified Simpson | <p>Modified Simpson's Method of estimating ventricular volume, based on the method of disks with paired apical views.</p> <p>Schiller NB, et al. "Recommendations for quantitation of the left ventricle by two-dimensional echocardiography. American Society of Echocardiography Committee on Standards, Subcommittee on Quantitation of Two-Dimensional Echocardiograms". <i>J Am Soc Echocardiogr</i>. 1989 2(5):358-367. Sep-Oct.</p> | |
| 125228 | Bullet Method | <p>Bullet method of estimating ventricular volume.</p> <p>Volume = 5/6 * L * S</p> <p>L: Left ventricle long axis length S: Left ventricle area, SAX view at level of Mitral Valve.</p> | |
| 125230 | Power Doppler | Color coded ultrasound images of blood flow, which depict the amplitude, or power, of Doppler signals. | Reti Rep "Pow |
| 125231 | 3D mode | Volumetric ultrasound imaging | Reti Rep "3D |
| 125233 | Start of drug dose administration | Onset of administration of dose of a drug. | |
| 125234 | Start of contrast agent administration | Onset of contrast agent administration. | |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 125235 | Destruction of microbubbles | Destruction of ultrasonic contrast microbubbles by a high-energy ultrasound pulse. |
| 125236 | Onset of exercise | Instant at which exercise begins. |
| 125237 | Cessation of exercise | Instant at which exercise ends. |
| 125238 | Onset of stimulation | Instant at which stimulation begins. |
| 125239 | Cessation of stimulation | Instant at which stimulation ends. |
| 125240 | Line scan pattern | Ultrasound transducer scan pattern in which information is gathered along a line. |
| 125241 | Plane scan pattern | Ultrasound transducer scan pattern in which information is gathered within a plane. |
| 125242 | Volume scan pattern | Ultrasound transducer scan pattern in which information is gathered within a volume. |
| 125251 | Non-imaging Doppler ultrasound transducer geometry | Ultrasound transducer geometry characterized by a single scan line used for PW or CW Doppler scanning. |
| 125252 | Linear ultrasound transducer geometry | Ultrasonic transducer geometry characterized by parallel lines. |
| 125253 | Curved linear ultrasound transducer geometry | Ultrasonic transducer geometry characterized by radial lines normal to the outside of a curved surface. |
| 125254 | Sector ultrasound transducer geometry | Ultrasonic transducer geometry characterized by lines originating from a common apex. |
| 125255 | Radial ultrasound transducer geometry | Ultrasonic transducer geometry characterized by lines emanating radially from a single point. |
| 125256 | Ring ultrasound transducer geometry | Ultrasonic transducer geometry characterized by a circular ring of transducer elements. |
| 125257 | Fixed beam direction | Ultrasonic steering technique consisting of a single beam normal to the transducer face steered by the orientation of the probe. |
| 125258 | Mechanical beam steering | Ultrasonic steering technique consisting of mechanically directing the beam. |
| 125259 | Phased beam steering | Ultrasonic steering technique consisting of electronically-steered beams. |
| 125261 | External Transducer | Transducer is designed to be placed onto the surface of the subject. |
| 125262 | Transesophageal Transducer | Transducer is designed for insertion into the esophagus. |
| 125263 | Endovaginal Transducer | Transducer is designed for insertion into the vagina. |
| 125264 | Endorectal Transducer | Transducer is designed for insertion into the rectum. |
| 125265 | Intravascular Transducer | Transducer is designed for insertion via a catheter. |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 125270 | Left Ventricle Mass by Area Length | <p>method to measure the mass of the Left Ventricle via the ASE area-length method at end diastole.</p> $LV\ Mass = 1.05 * (5/6 * (A1 * (L + t)) - 5/6 * (A2 * L))$ <p>A1 = Left Ventricle epicardial SAX area at the level of the papillary muscle tips at end diastole.</p> <p>A2 = Left Ventricle endocardial SAX area cavity area at the level of the papillary muscle tips at end diastole.</p> <p>L = Left Ventricle apical view long axis length at end diastole.</p> <p>t = Myocardial thickness can be computed as:</p> $t = \sqrt{A1/3.14} - \sqrt{A2/3.14}$ <p>Reference:</p> <p>1) Schiller, N.B., et al. "Recommendations for Quantification of the LV by Two-dimensional Echocardiography." J Am Soc Echo, Vol. 2, No. 5: 358-367, Sep-Oct 1989.</p> <p>2) Reichek, N., et al. "Anatomic Validation of Left Ventricular Mass Estimates from Clinical Two-dimensional Echocardiography: Initial Results." Circulation, Vol. 67, No. 2: 348-52, February 1983.</p> |
| 125271 | Left Ventricle Mass by M-mode - adjusted by Height | <p>Equation = Left Ventricle Mass by M-mode (in gram) / (Height (in meter)) ^2.7</p> <p>Reference:</p> <p>Giovanni De Simone, et al. "Effect of Growth on Variability of Left Ventricular Mass: Assessment of Allometric Signals in Adults and Children and Their Capacity to Predict Cardiovascular Risk". New York, New York and Cincinnati, Ohio.</p> |
| 125272 | Left Ventricle Mass by Truncated Ellipse - adjusted by Height | <p>Equation = Left Ventricle Mass by Truncated Ellipse / Height^2.7</p> <p>Reference:</p> <p>Giovanni De Simone, et al. "Effect of Growth on Variability of Left Ventricular Mass: Assessment of Allometric Signals in Adults and Children and Their Capacity to Predict Cardiovascular Risk". New York, New York and Cincinnati, Ohio.</p> |
| 125273 | Left Ventricle Mass by Area Length - adjusted by Height | <p>Equation = Left Ventricle Mass by Area Length / Height^2.7</p> <p>Reference:</p> <p>Giovanni De Simone, et al. "Effect of Growth on Variability of Left Ventricular Mass: Assessment of Allometric Signals in Adults and Children and Their Capacity to Predict Cardiovascular Risk". New York, New York and Cincinnati, Ohio.</p> |
| 125301 | Pre-coordinated Measurements | Measurements that are described by a single pre-coordinated code. |
| 125302 | Post-coordinated Measurements | Measurements that are described by a collection of (generally atomic) post-coordinated codes. |
| 125303 | Adhoc Measurements | Measurements taken in an ad hoc fashion without any coordinated semantics. |
| 125304 | Untrackable Measurement | The source system of the measurement does not maintain a persistent pre-coordinated code by which different instances of the measurement can be associated and tracked over multiple procedures. |
| 125305 | Finding Observation Type | The type of observation made at the finding site, e.g., whether it is an observation of the structure of the finding site, an observation of the behavior of the finding site, or an observation of the blood flow at the finding site. |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 125306 | Measurement Type | The type of derivation used to obtain the measurement value. E.g. whether it is taken directly, formed as a ratio, normalized against an index, or calculated using a more elaborate equation. |
| 125307 | Measured Property | The property that is being measured. Examples include mass, diameter, peak blood velocity. |
| 125308 | Measurement Divisor | The measurement which is the denominator of a measurement that is divided. This applies to measurements such as ratios or indexed values. |
| 125309 | Short Label | A brief label, suitable for display on a screen or report. (Not suitable for matching). |
| 125310 | Staged Measurements | Measurements that need to be associated with a specific stage in a procedure or acquisition protocol. |
| 125311 | Structure of the Finding Site | The subject of a measurement is the physical structure of the Finding Site, such as the mass or diameter. |
| 125312 | Behavior of the Finding Site | The subject of a measurement is the behavior of the Finding Site, such as the velocity or duration of motion. |
| 125313 | Indexed | The measurement has been normalized by dividing it by an index value (such as Body Surface Area). |
| 125314 | Fractional Change | The measurement is a change value expressed as a fraction of its baseline value. E.g. cardiac ejection fraction or fractional shortening. |
| 125315 | Calculated | The measurement is calculated by incorporating one or more measured values into an equation other than a ratio, fractional change or indexed calculation. |
| 125316 | Directly measured | The measurement is a direct output of the measurement tool. |
| 125317 | Right Ventricle Outflow Tract, Distal | The distal portion (at the Pulmonic Valve) of the Right Ventricle Outflow Tract. |
| 125318 | Right Ventricle Outflow Tract, Proximal | The proximal portion (subvalvular) of the Right Ventricle Outflow Tract. |
| 125319 | Right Ventricle Anterior Wall | The anterior wall of the right ventricle of the heart. |
| 125320 | Electromechanical Delay | The period of time between the onset of muscle activation and the onset of force or motion. |
| 125321 | Pre-ejection Period | The period between onset of ventricular contraction and the beginning of antegrade blood flow out of the ventricle. |
| 125322 | Atrial Diastolic Filling (D-wave) | The period of atrial diastolic filling. |
| 125323 | AR-wave | The period of retrograde flow into the pulmonary vein during atrial contraction. |
| 125324 | Full Cardiac Cycle | The period of the entire cardiac cycle. E.g. from End Systole of one heartbeat to End Systole of the next heartbeat. |
| 125325 | Dyssynchrony Index | The standard deviation over 12 left ventricle myocardial segments of the time to peak myocardial sustained systolic velocity of each segment. See Yu, et al., Circulation, 2002; 105: 438-445 |
| 125326 | Effective Orifice Area | The effective area of an orifice (such as the mitral valve orifice) during bloodflow through the orifice. |
| 125327 | Excursion Distance | The distance traversed by some tissue over a defined period. |
| 125328 | Maximum Orifice Area | The maximum area of an orifice opening over a defined period. |
| 125329 | Peak Blood Pressure | The peak pressure of blood over a defined period at a defined location. |
| 125330 | Peak Tissue Velocity | The peak velocity of some tissue over a defined period |
| 125331 | PISA Radius | The radius of the proximal isovelocity surface area (PISA) of fluid flow approaching an orifice. It is commonly used to evaluate cardiac valve regurgitation. |
| 125332 | Regurgitation Jet Area | A cross-sectional area of a regurgitation jet, taken perpendicular to the primary flow. |

| Code Value | Code Meaning | Definition |
|------------|--|--|
| 125333 | Regurgitation Jet Width | A width of a regurgitation jet taken perpendicular to the primary flow. |
| 125334 | Vena Contracta Width | The width of the vena contracta of a fluid flow. |
| 125901 | CARDIOsphere | CARDIOsphere™ ultrasonic contrast agent produced by POINT Biomedical. |
| 125902 | Echovist | Echovist® ultrasonic contrast agent produced by Schering AG. |
| 125903 | Imagify | Imagify™ ultrasonic contrast agent produced by Accusphere Inc. |
| 125904 | Levovist | Levovist® ultrasonic contrast agent produced by Schering AG. |
| 125905 | Sonazoid | Sonazoid™ ultrasonic contrast agent produced by Daiichi Pharmaceutical / General Electric. |
| 125906 | SonoVue | SonoVue™ ultrasonic contrast agent produced by Bracco Diagnostics. |
| 125907 | Targestar-B | Targestar™-B ultrasonic contrast agent produced by Targeson LLC. |
| 125908 | Targestar-P | Targestar™-P ultrasonic contrast agent produced by Targeson LLC. |
| 126000 | Imaging Measurement Report | A structured report containing the quantitative results of human or machine analysis of images. |
| 126001 | Oncology Measurement Report | A structured report containing the quantitative results of human or machine analysis of images for oncology evaluation. |
| 126002 | Dynamic Contrast MR Measurement Report | A structured report containing the quantitative results of human or machine analysis of DCE-MR. |
| 126003 | PET Measurement Report | A structured report containing the quantitative results of human or machine analysis of PET images. |
| 126010 | Imaging Measurements | Measurements made on images |
| 126011 | Derived Imaging Measurements | Measurements derived from measurements made on images. |
| 126020 | Multiparametric MRI | An MRI procedure in which multiple parameters including diffusion, dynamic contrast and T2 are measured. |
| 126021 | Multiparametric MRI of prostate | An MRI procedure of the prostate in which multiple parameters including diffusion, dynamic contrast and T2 are measured. |
| 126022 | Multiparametric MRI of whole body | An MRI procedure of the whole body in which multiple parameters including diffusion, dynamic contrast and T2 are measured. |
| 126030 | Sum of segmented voxel volumes | The volume derived by summing the volumes of all the voxels (and partial voxels if the segment contains partially occupied voxels) included in the segment |
| 126031 | Peak Value Within ROI | Maximum average gray value that is calculated from a 1 cubic centimeter sphere placed within the region of interest. See Wahl RL, Jacene H, Kasamon Y, Lodge MA. From RECIST to PERCIST: Evolving Considerations for PET Response Criteria in Solid Tumors. Journal of Nuclear Medicine. 2009;50(Suppl 1):122S – 150S. |
| 126032 | Metabolic Volume | The volume of a lesion (e.g., a tumor) ascertained through information about its metabolic activity (e.g., SUV on PET). Abbreviated "MV". Synonymous with Metabolic Tumor Volume (MTV). |
| 126033 | Total Lesion Glycolysis | The total activity of a lesion obtained as the product of its volume and its glycolytic activity (on FDG-PET). The volume may be defined on the same modality (e.g., the MV on FDG-PET by some thresholding or other technique) or on another spatially registered modality (e.g., the lesion outline segmented on CT or MR). Does not apply to other radiopharmaceuticals than those involved in glucose metabolism. Abbreviated TLG. Synonymous with "Tumor Lesion Glycolysis". |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 126034 | Glycolysis | The amount glycolytic activity summed across all voxels in a defined region or within a defined range of SUV (on FDG-PET). |
| 126035 | Total Lesion Proliferation | <p>The total activity of a lesion obtained as the product of its volume and its proliferative activity (on FLT-PET).</p> <p>The volume may be defined on the same modality (e.g., the MV on FDG-PET by some thresholding or other technique) or on another spatially registered modality (e.g., the lesion outline segmented on CT or MR).</p> <p>Does not apply to other radiopharmaceuticals than those involved in cellular proliferation.</p> <p>Abbreviated TLP. Synonymous with "Tumor Lesion Proliferation".</p> |
| 126036 | Proliferative Activity | The amount proliferative activity summed across all voxels in a defined region or within a defined range of SUV (on FLT-PET). |
| 126037 | Standardized Added Metabolic Activity (SAM) | <p>A background-corrected, partial volume independent version of TLG.</p> <p>SAM is calculated by drawing a volume of interest (VOI1) around the tumour and a larger VOI (VOI2) around VOI1. Subtracting the background activity in VOI2-VOI1 from VOI1 yields SAM.</p> <p>See Mertens et al. "Standardized added metabolic activity (SAM): a partial volume independent marker of total lesion glycolysis in liver metastases". Eur J Nucl Med Mol Imaging (2012) 39:1441–1448.</p> |
| 126038 | Standardized Added Metabolic Activity (SAM) Background | <p>The background value (VOI2-VOI1) used to calculate Standardized Added Metabolic Activity (SAM).</p> <p>SAM is calculated by drawing a volume of interest (VOI1) around the tumour and a larger VOI (VOI2) around VOI1. Subtracting the background activity in VOI2-VOI1 from VOI1 yields SAM.</p> <p>See Mertens et al. "Standardized added metabolic activity (SAM): a partial volume independent marker of total lesion glycolysis in liver metastases". Eur J Nucl Med Mol Imaging (2012) 39:1441–1448.</p> |
| 126039 | Lesion to Background SUV Ratio | <p>The ratio of the SUV within a tumor to the SUV of a pre-defined background region.</p> <p>A more general concept than Tumor to Background Ratio (TBR).</p> |
| 126040 | Background for Lesion to Background SUV Ratio | The SUV of a pre-defined background region used to compute Lesion to Background SUV Ratio. |
| 126050 | Fractal Dimension | A statistical index of complexity comparing how detail in a fractal pattern changes with the scale at which it is measured; a ratio of the change in detail to the change in scale. |
| 126051 | Skewness | Measure of the asymmetry of the probability distribution of a real-valued random variable about its mean. |
| 126052 | Kurtosis | Measure of the peakedness of the probability distribution of a real-valued random variable. |
| 126060 | Entropy of GLCM | <p>The zero order entropy of a Gray Level Co-occurrence Matrix (GLCM). A measure of disorder.</p> <p>See http://www.fp.ucalgary.ca/mhallbey/equations.htm.</p> |
| 126061 | Energy of GLCM | <p>The energy (uniformity) (square root of the Angular Second Moment (ASM)) of a Gray Level Co-occurrence Matrix (GLCM). A measure of orderliness.</p> <p>See http://www.fp.ucalgary.ca/mhallbey/equations.htm.</p> |
| 126062 | Homogeneity of GLCM | <p>The Inverse Difference Moment of a Gray Level Co-occurrence Matrix (GLCM).</p> <p>See http://www.fp.ucalgary.ca/mhallbey/equations.htm.</p> |

| Code Value | Code Meaning | Definition | |
|------------|---|---|---|
| 126063 | Contrast of GLCM | The sum of squares variance of a Gray Level Co-occurrence Matrix (GLCM). See http://www.fp.ualgary.ca/mhallbey/equations.htm . | |
| 126064 | Dissimilarity of GLCM | The dissimilarity of a Gray Level Co-occurrence Matrix (GLCM). See http://www.fp.ualgary.ca/mhallbey/equations.htm . | |
| 126065 | ASM of GLCM | The Angular Second Moment of a Gray Level Co-occurrence Matrix (GLCM). See http://www.fp.ualgary.ca/mhallbey/equations.htm . | |
| 126066 | Correlation of GLCM | A measure of the linear dependency of grey levels on those of neighbouring pixels of a Gray Level Co-occurrence Matrix (GLCM). See http://www.fp.ualgary.ca/mhallbey/equations.htm . | |
| 126067 | Gray Level Co-occurrence Matrix (GLCM) | A tabulation of how often different combinations of pixel values (grey levels) occur in an image. See http://www.fp.ualgary.ca/mhallbey/the_glcm.htm . | |
| 126070 | Subject Time Point Identifier | An identifier of a specific time point in a continuum, which is unique within an appropriate local context (such as an entire organization, system or treatment protocol), which identifies the time point for a specific patient. | |
| 126071 | Protocol Time Point Identifier | An identifier of a specific time point in a continuum, which is unique within an appropriate local context (such as an entire organization, system or treatment protocol), which identifies the time point "slot" within a treatment protocol using the same value for all patients in the protocol. | |
| 126072 | Time Point Type | A pre-defined type of a specific time point in a continuum. | |
| 126073 | Time Point Order | A number indicating the order of a time point relative to other time points in the same continuum. | |
| 126074 | Posttreatment | The time after the treatment of interest. | |
| 126075 | Eligibility | For the purpose of determining eligibility for a protocol. | Sim (219 eligi sinc canc |
| 126080 | RECIST 1.0 | Response Evaluation Criteria in Solid Tumors version 1.0. See [RECIST] in Normative References. | More DCM (C17 "RE "RE vers |
| 126081 | RECIST 1.1 | Response Evaluation Criteria in Solid Tumors Version 1.1. See Eisenhauer et al. "New Response Evaluation Criteria in Solid Tumours: Revised RECIST Guideline (version 1.1)." European Journal of Cancer 45, no. 2 (n.d.): 228–47. doi:10.1016/j.ejca.2008.10.026 doi:10.1016/j.ejca.2008.10.026 | More DCM (C17 "RE "RE vers |
| 126100 | Real World Value Map used for measurement | A reference to the Real World Value Map applied to the stored image pixel values before their use for a measurement | |
| 126200 | Image Library Group | A container that groups common information about a set of images used as evidence to produce a report. | |
| 126201 | Acquisition Date | The date the acquisition of data started | |
| 126202 | Acquisition Time | The time the acquisition of data started | |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 126203 | PET Radionuclide Incubation Time | The time between the start of injection of the PET radionuclide and the start of acquisition of the PET data. |
| 126220 | R2-Coefficient | Coefficient of determination, R^2 . An indication of goodness of fit. |
| 126300 | Perfusion analysis by Stable Xenon CT technique | Perfusion analysis by Stable Xenon CT technique |
| 126301 | Perfusion analysis by IV Iodinated Contrast CT technique | Perfusion analysis by IV Iodinated Contrast CT technique |
| 126302 | Perfusion analysis by Arterial Spin Labeling MR technique | Perfusion analysis by Arterial Spin Labeling (ASL) MR technique |
| 126303 | Perfusion analysis by Susceptibility MR technique | Perfusion analysis by Susceptibility (T2*) MR technique |
| 126310 | Least Mean Square (LMS) deconvolution | Least Mean Square (LMS) deconvolution |
| 126311 | Singular Value Decomposition (SVD) deconvolution | Singular Value Decomposition (SVD) deconvolution |
| 126312 | Ktrans | <p>K^{trans}, the volume transfer constant of a tracer diffusion kinetic model, specifically the volume transfer constant between blood plasma and extravascular extracellular space (EES)</p> <p>See Tofts et al, "Estimating Kinetic Parameters From Dynamic Contrast-Enhanced T1-Weighted MRI of a Diffusable Tracer: Standardized Quantities and Symbols", Journal of Magnetic Resonance Imaging, vol. 10, pp. 223–232, 1999.</p> |
| 126313 | kep | <p>k_{ep}, the rate constant between extravascular extracellular space (EES) and blood plasma</p> <p>See Tofts et al, "Estimating Kinetic Parameters From Dynamic Contrast-Enhanced T1-Weighted MRI of a Diffusable Tracer: Standardized Quantities and Symbols", Journal of Magnetic Resonance Imaging, vol. 10, pp. 223–232, 1999.</p> |
| 126314 | ve | <p>v_e, the fractional (not absolute) volume of extravascular extracellular space (EES) per unit volume of tissue</p> <p>See Tofts et al, "Estimating Kinetic Parameters From Dynamic Contrast-Enhanced T1-Weighted MRI of a Diffusable Tracer: Standardized Quantities and Symbols", Journal of Magnetic Resonance Imaging, vol. 10, pp. 223–232, 1999.</p> |
| 126320 | IAUC | The initial area under the contrast agent concentration–time curve |
| 126321 | IAUC60 | The initial area under the contrast agent concentration–time curve at 60 seconds after the onset time |
| 126322 | IAUC90 | The initial area under the contrast agent concentration–time curve at 90 seconds after the onset time |
| 126323 | IAUC180 | The initial area under the contrast agent concentration–time curve at 180 seconds after the onset time |
| 126324 | IAUCBN | The initial area under the contrast agent concentration–time curve, normalized with the corresponding arterial input function, such that $IAUC_{BN} = IAUC / IAUC_{AIF}$. |
| 126325 | IAUCBN60 | The initial area under the contrast agent concentration–time curve at 60 seconds after the onset time, normalized with the corresponding arterial input function, such that $IAUC60_{BN} = IAUC60 / IAUC60_{AIF}$. |
| 126326 | IAUCBN90 | The initial area under the contrast agent concentration–time curve at 90 seconds after the onset time, normalized with the corresponding arterial input function, such that $IAUC90_{BN} = IAUC90 / IAUC90_{AIF}$. |
| 126327 | AUCBN180 | The initial area under the contrast agent concentration–time curve at 180 seconds after the onset time, normalized with the corresponding arterial input function, such that $IAUC180_{BN} = IAUC180 / IAUC180_{AIF}$. |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 126330 | tau_m | τ_m . The mean intracellular water lifetime (τ_i). Used in the Shutter-Speed Model (SSM) of tracer kinetics. |
| 126331 | vp | v_p . The fractional (not absolute) blood plasma volume per unit volume of tissue. See Tofts et al, "Estimating Kinetic Parameters From Dynamic Contrast-Enhanced T1-Weighted MRI of a Diffusable Tracer: Standardized Quantities and Symbols", Journal of Magnetic Resonance Imaging, vol. 10, pp. 223–232, 1999. |
| 126340 | Standard Tofts Model | A tracer diffusion kinetic model in which the permeability is assumed to be isodirectional. See P. Tofts, "Modeling tracer kinetics in dynamic Gd-DTPA MR imaging", Journal of Magnetic Resonance Imaging, vol. 7, pp. 91–101, 1997. Mathematically equivalent to the model proposed by Kety in a non-MRI context, hence sometimes referred to as the Tofts-Kety (TK) model. See Kety SS. The Theory and Applications of the Exchange of Inert Gas at the Lungs and Tissues. Pharmacological Reviews. 1951 Mar 1;3(1):1–41. |
| 126341 | Extended Tofts Model | A tracer diffusion kinetic model in which the permeability is not assumed to be isodirectional, and which includes the contribution of tracer in the blood plasma to the total tissue concentration. See P. Tofts, "Modeling tracer kinetics in dynamic Gd-DTPA MR imaging", Journal of Magnetic Resonance Imaging, vol. 7, pp. 91–101, 1997. |
| 126342 | Model-free concentration-time quantification | A semiquantitative analysis of the contrast-enhancement concentration versus time curve that avoids the use of a pharmacokinetic model. E.g., integration to compute the initial area under the curve. |
| 126343 | First Pass Leakage Profile (FPLP) Model | A tracer diffusion kinetic model that accounts for the tumor leakage profile during the first pass of contrast. See Li, Ka-Loh, Xiao Ping Zhu, John Waterton, and Alan Jackson. "Improved 3D Quantitative Mapping of Blood Volume and Endothelial Permeability in Brain Tumors." Journal of Magnetic Resonance Imaging 12, no. 2 (2000): 347–357. doi:10.1002/1522-2586(200008)12:2<347::AID-JMRI19>3.0.CO;2-7:10.1002/1522-2586(200008)12:2<347::AID-JMRI19>3.0.CO;2-7. |
| 126344 | Shutter-Speed Model (SSM) | A tracer diffusion kinetic model that does not assume that intercompartmental water molecule exchange is infinitely fast. See Li, Xin, Wei Huang, Thomas E. Yankeelov, Alina Tudorica, William D. Rooney, and Charles S. Springer. "Shutter-Speed Analysis of Contrast Reagent Bolus-Tracking Data: Preliminary Observations in Benign and Malignant Breast Disease." Magnetic Resonance in Medicine 53, no. 3 (2005): 724–29. doi:10.1002/mrm.20405:10.1002/mrm.20405. |
| 126345 | Gamma Capillary Transit Time (GCCT) Model | A tracer diffusion kinetic model that mathematically unifies the Tofts, Extended Tofts, Adiabatic Tissue Homogeneity, and Two Compartment Exchange models See Schabel MC. A unified impulse response model for DCE-MRI. Magnetic Resonance in Medicine. 2012;68(5):1632–46. doi:10.1002/mrm.24162:10.1002/mrm.24162. |
| 126346 | Adiabatic Tissue Homogeneity (ATH) Model | An adiabatic approximation to the tissue homogeneity tracer diffusion kinetic model, which assumes that the tracer concentration in parenchymal tissue changes slowly relative to that in capillaries. See St. Lawrence KS, Lee T-Y. An Adiabatic Approximation to the Tissue Homogeneity Model for Water Exchange in the Brain: I. Theoretical Derivation. J Cereb Blood Flow Metab. 1998 Dec;18(12):1365–77. doi:10.1097/00004647-199812000-00011:10.1097/00004647-199812000-00011. |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 126347 | Two Compartment Exchange (2CX) Model | A tracer diffusion kinetic that incorporates the extracellular space of the lesion as a peripheral compartment, connected to the central (plasma) compartment by linear exchange processes in both directions. See Brix G, Semmler W, Port R, Schad LR, Layer G, Lorenz WJ. Pharmacokinetic Parameters in CNS Gd-DTPA Enhanced MR Imaging. Journal of Computer Assisted Tomography. 1991;15(4):621–8. |
| 126350 | T1 by Multiple Flip Angles | T1 measurement by Multiple Flip Angles (MFA) (variable saturation) method |
| 126351 | T1 by Inversion Recovery | T1 measurement by Inversion Recovery (IR) method |
| 126352 | T1 by Fixed Value | Calculation was performed using a fixed value of T1 rather than a measured value. The value could be encoded as the value of (126353, DCM, "T1 Used For Calculation"). |
| 126353 | T1 Used For Calculation | The fixed value of T1 used for a calculation. |
| 126360 | AIF Ignored | No Arterial Input Function was used. |
| 126361 | Population Averaged AIF | A population-averaged Arterial Input Function. |
| 126362 | User-defined AIF ROI | An Arterial Input Function computed from a user-defined Region of Interest. |
| 126363 | Automatically Detected AIF ROI | An Arterial Input Function computed from an automatically detected Region of Interest. |
| 126364 | Blind Estimation of AIF | A data-driven blind source separation (BSS) algorithm that estimates AIF from individuals without any presumed AIF model and initialization. See Lin, Yu-Chun, Tsung-Han Chan, Chong-Yung Chi, Shu-Hang Ng, Hao-Li Liu, Kuo-Chen Wei, Yau-Yau Wai, Chun-Chieh Wang, and Jiun-Jie Wang. "Blind Estimation of the Arterial Input Function in Dynamic Contrast-Enhanced MRI Using Purity Maximization." Magnetic Resonance in Medicine 68, no. 5 (November 1, 2012): 1439–49. doi:10.1002/mrm.24144;10.1002/mrm.24144. |
| 126370 | Time of Peak Concentration | The time at which the concentration-time curve achieves its peak for the first time. Used as a concept name for a value or as a method. E.g., used as a method of calculation for BAT. See Shpilfoygel Med Phys 2008. doi:10.1118/1.1288669;10.1118/1.1288669. |
| 126371 | Bolus Arrival Time | The nominal time at which arrival of a contrast bolus is detected, which is used as a reference point for subsequent calculations. Used as a concept name for a value or as a method. No specific computational method is implied by this general definition. Abbreviated BAT. |
| 126372 | Time of Leading Half-Peak Concentration | The time at which the concentration-time curve achieves half of its peak density for the first time. Used as a concept name for a value or as a method. E.g., used as a method of calculation for BAT. See Shpilfoygel Med Phys 2008. doi:10.1118/1.1288669;10.1118/1.1288669. |
| 126373 | Temporal Derivative Exceeds Threshold | A method of determining BAT that involves computing the temporal derivative of the concentration-time curve and selecting the time when the temporal derivative exceeds a specified threshold. See Shpilfoygel Med Phys 2008. doi:10.1118/1.1288669;10.1118/1.1288669. |
| 126374 | Temporal Derivative Threshold | A threshold applied to the temporal derivative of the concentration-time curve. E.g., used to establish BAT. See Shpilfoygel Med Phys 2008. doi:10.1118/1.1288669;10.1118/1.1288669. |
| 126375 | Maximum Slope | The maximum rate of signal intensity change within a measured region of a time-activity curve. See Boonsirikamchai, Piyaporn, Harmeet Kaur, Deborah A. Kuban, Edward Jackson, Ping Hou, and Haesun Choi. "Use of Maximum Slope Images Generated From Dynamic Contrast-Enhanced MRI to Detect Locally Recurrent Prostate Carcinoma After Prostatectomy: A Practical Approach." American Journal of Roentgenology 198, no. 3 (March 1, 2012): W228–W236. doi:10.2214/AJR.10.6387;10.2214/AJR.10.6387. |
| 126376 | Maximum Difference | The maximum degree of signal intensity change within a measured region of a time-activity curve. See Boonsirikamchai, Piyaporn, Harmeet Kaur, Deborah A. Kuban, Edward Jackson, Ping Hou, and Haesun Choi. "Use of Maximum Slope Images Generated From Dynamic Contrast-Enhanced MRI to Detect Locally Recurrent Prostate Carcinoma After Prostatectomy: A Practical Approach." American Journal of Roentgenology 198, no. 3 (March 1, 2012): W228–W236. doi:10.2214/AJR.10.6387;10.2214/AJR.10.6387. |

| Code Value | Code Meaning | Definition |
|------------|----------------------------------|--|
| 126377 | Tracer Concentration | Tracer concentration in tissue. E.g., in a DCE-MR experiment, the concentration of contrast agent in mmol/l. |
| 126380 | Contrast Longitudinal Relaxivity | The degree to which a paramagnetic contrast agent can enhance the proton longitudinal relaxation rate constant (R_1 , $1/T_1$), normalized to the concentration of the contrast agent. Also referred to as r_1 . Typically expressed in units of l/mmol/s. |
| 126390 | Regional Blood Flow | The flow rate of blood perfusing a region as volume per mass per unit of time. |
| 126391 | Regional Blood Volume | The volume of blood perfusing a region as volume per mass. |
| 126392 | Oxygen Extraction Fraction | The percent of the oxygen removed from the blood by tissue during its passage through the capillary network. For example, as measured by blood oxygenation level dependent (BOLD) MR. See He, Xiang, and Dmitriy A. Yablonskiy. "Quantitative BOLD: Mapping of Human Cerebral Deoxygenated Blood Volume and Oxygen Extraction Fraction: Default State." <i>Magnetic Resonance in Medicine</i> 57, no. 1 (2007): 115–26. |
| 126393 | R_1 | The longitudinal relaxation rate constant for the decay of longitudinal magnetization caused by spin-lattice relaxation. The inverse of longitudinal relaxation time, i.e., $R_1 = 1/T_1$. |
| 126394 | R_2 | The transverse relaxation rate constant for the decay of transverse magnetization caused by spin-spin relaxation. The inverse of transverse relaxation time, i.e., $R_2 = 1/T_2$. |
| 126395 | R_2^* | The transverse relaxation rate constant for the decay of transverse magnetization caused by a combination of spin-spin relaxation and magnetic field inhomogeneity. The inverse of transverse relaxation time, i.e., $R_2^* = 1/T_2^*$. |
| 126396 | Magnetic Susceptibility | <p>Magnetic Susceptibility is a measure of the amount of magnetization induced in a material when placed in an external magnetic field. It is the quantity encoded as the voxel intensity in Quantitative Susceptibility Map (QSM) images.</p> <p>It is a dimensionless quantity, usually recorded with units of parts per millions (ppm).</p> <p>See Liu T, Wisnieff C, Lou M, Chen W, Spincemaille P, Wang Y. Nonlinear formulation of the magnetic field to source relationship for robust quantitative susceptibility mapping. <i>Magnetic Resonance in Medicine</i>. 2013;69(2):467–76. http://dx.doi.org/10.1002/mrm.24272.</p> <p>See Wang Y, Liu T. Quantitative susceptibility mapping (QSM): Decoding MRI data for a tissue magnetic biomarker. <i>Magnetic Resonance in Medicine</i>. 2015;73(1):82–101. http://dx.doi.org/10.1002/mrm.25358.</p> |
| 126400 | Standardized Uptake Value | <p>A ratio of locally measured radioactivity concentration versus the injected radioactivity distributed evenly throughout the whole body.</p> <p>This general concept encompasses all specific methods of calculating the whole body volume of distribution, such as using body weight, lean body mass, body surface area, etc.</p> |
| 126401 | SUVbw | <p>Standardized Uptake Value calculated using body weight. The patient size correction factor for males and females is body weight.</p> <p>Defined in Sugawara et al. <i>Reevaluation of the Standardized Uptake Value for FDG: Variations with Body Weight and Methods for Correction</i>. <i>Radiology</i>, 1999 at http://radiology.rsna.org/content/213/2/521</p> |

| Code Value | Code Meaning | Definition |
|------------|------------------------------------|---|
| 126402 | SUVlbm | <p>Standardized Uptake Value calculated using lean body mass by James method. The patient size correction factor for males is $1.10 * \text{weight} - (120 \text{ or } 128) * (\text{weight}/\text{height})^2$, and for females is $1.07 * \text{weight} - 148 * (\text{weight}/\text{height})^2$.</p> <p>Defined in Sugawara et al. <i>Reevaluation of the Standardized Uptake Value for FDG: Variations with Body Weight and Methods for Correction</i>. Radiology, 1999 at http://radiology.rsna.org/content/213/2/521, except that either 120 or 128 may be used as the multiplier parameter for males).</p> <p>Unfortunately, Sugawara used a parameter of 120 rather than 128, propagating an error in Morgan DJ, Bray KM. Lean Body Mass as a Predictor of Drug Dosage: Implications for Drug Therapy. Clinical Pharmacokinetics. 1994;26(4):292-307, which misquoted the original LBM definition that used 128 in James WPT, Waterlow JC. Research on Obesity: A Report of the DHSS/MRC Group. London: Her Majesty's Stationery Office; 1976. Implementations differ in whether they have used 120 or 128 when using this code. See Kelly M. SUV: Advancing Comparability and Accuracy. Siemens; 2009. Available from: http://www.mpcphysics.com/documents/SUV_Whitepaper_Final_11.17.09_59807428_2.pdf.</p> |
| 126403 | SUVbsa | <p>Standardized Uptake Value calculated using body surface area. The patient size correction factor for males and females is $\text{weight}^0.425 * \text{height}^0.725 * 0.007184$.</p> <p>Defined in Sugawara et al. <i>Reevaluation of the Standardized Uptake Value for FDG: Variations with Body Weight and Methods for Correction</i>. Radiology, 1999 at http://radiology.rsna.org/content/213/2/521</p> |
| 126404 | SUVibw | <p>Standardized Uptake Value calculated using ideal body weight. The patient size correction factor for males is $48.0 + 1.06 * (\text{height} - 152)$ and for females is $45.5 + 0.91 * (\text{height} - 152)$.</p> <p>Defined in Sugawara et al. <i>Reevaluation of the Standardized Uptake Value for FDG: Variations with Body Weight and Methods for Correction</i>. Radiology, 1999 at http://radiology.rsna.org/content/213/2/521</p> |
| 126405 | SUVlbm(Janma) | <p>Standardized Uptake Value calculated using lean body mass by Janmahasatian method. The patient size correction factor for males is $9.27E3 * \text{weight} / (6.68E3 + 216 * \text{weight} / (\text{height}^2))$ and for females is $9.27E3 * \text{weight} / (8.78E3 + 244 * \text{weight} / (\text{height}^2))$.</p> <p>Defined in Janmahasatian et al. <i>Quantification of Lean Bodyweight. Clin Pharmacokinet.</i> 2005 Oct 1;44(10):1051-65. at http://dx.doi.org/10.2165/00003088-200544100-00004 and its role in SUVlbm(Janma) calculation is discussed in Tahari et al. <i>Optimum Lean Body Formulation for Correction of Standardized Uptake Value in PET Imaging. Journal of Nuclear Medicine.</i> 2014 Sep 1;55(9):1481-4. at http://jnm.snmjournals.org/content/55/9/1481.</p> |
| 126406 | SUVlbm(James128) | <p>Standardized Uptake Value calculated using lean body mass by James method, using the originally published 128 multiplier for males. The patient size correction factor for males is $1.10 * \text{weight} - 128 * (\text{weight}/\text{height})^2$, and for females is $1.07 * \text{weight} - 148 * (\text{weight}/\text{height})^2$.</p> |
| 126410 | SUV body weight calculation method | <p>Method of calculating Standardized Uptake Value using body weight. The patient size correction factor for males and females is body weight.</p> <p>Defined in Sugawara et al. <i>Reevaluation of the Standardized Uptake Value for FDG: Variations with Body Weight and Methods for Correction</i>. Radiology, 1999 at http://radiology.rsna.org/content/213/2/521</p> |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 126411 | SUV lean body mass calculation method | <p>Method of calculating Standardized Uptake Value using lean body mass. The patient size correction factor for males is $1.10 * \text{weight} - (120 \text{ or } 128) * (\text{weight}/\text{height})^2$, and for females is $1.07 * \text{weight} - 148 * (\text{weight}/\text{height})^2$.</p> <p>Defined in Sugawara et al. <i>Reevaluation of the Standardized Uptake Value for FDG: Variations with Body Weight and Methods for Correction</i>. Radiology, 1999 at http://radiology.rsna.org/content/213/2/521</p> <p>Unfortunately, Sugawara used a parameter of 120 rather than 128, propagating an error in Morgan DJ, Bray KM. Lean Body Mass as a Predictor of Drug Dosage: Implications for Drug Therapy. <i>Clinical Pharmacokinetics</i>. 1994;26(4):292–307, which misquoted the original LBM definition that used 128 in James WPT, Waterlow JC. <i>Research on Obesity: A Report of the DHSS/MRC Group</i>. London: Her Majesty's Stationery Office; 1976. Implementations differ in whether they have used 120 or 128 when using this code. See Kelly M. SUV: Advancing Comparability and Accuracy. Siemens; 2009. Available from: http://www.mpcphysics.com/documents/SUV_Whitepaper_Final_11.17.09_59807428_2.pdf.</p> |
| 126412 | SUV body surface area calculation method | <p>Method of calculating Standardized Uptake Value using body surface area. The patient size correction factor for males and females is $\text{weight}^0.425 * \text{height}^0.725 * 0.007184$.</p> <p>Defined in Sugawara et al. <i>Reevaluation of the Standardized Uptake Value for FDG: Variations with Body Weight and Methods for Correction</i>. Radiology, 1999 at http://radiology.rsna.org/content/213/2/521</p> |
| 126413 | SUV ideal body weight calculation method | <p>Method of calculating Standardized Uptake Value using ideal body weight. The patient size correction factor for males is $48.0 + 1.06 * (\text{height} - 152)$ and for females is $45.5 + 0.91 * (\text{height} - 152)$.</p> <p>Defined in Sugawara et al. <i>Reevaluation of the Standardized Uptake Value for FDG: Variations with Body Weight and Methods for Correction</i>. Radiology, 1999 at http://radiology.rsna.org/content/213/2/521</p> |
| 126414 | SUV lean body mass calculation Janmahasatian method | <p>Janmahasatian method of calculating Standardized Uptake Value using lean body mass. The patient size correction factor for males is $9.27E3 * \text{weight} / (6.68E3 + 216 * \text{weight} / (\text{height}^2))$ and for females is $9.27E3 * \text{weight} / (8.78E3 + 244 * \text{weight} / (\text{height}^2))$.</p> <p>Defined in Janmahasatian et al. <i>Quantification of Lean Bodyweight</i>. <i>Clin Pharmacokinet</i>. 2005 Oct 1;44(10):1051–65. at http://dx.doi.org/10.2165/00003088-200544100-00004 and its role in SUVlbm(Janma) calculation is discussed in Tahari et al. <i>Optimum Lean Body Formulation for Correction of Standardized Uptake Value in PET Imaging</i>. <i>Journal of Nuclear Medicine</i>. 2014 Sep 1;55(9):1481–4. at http://jnm.snmjournals.org/content/55/9/1481.</p> |
| 126415 | SUV lean body mass calculation method using 128 multiplier | James method of calculating Standardized Uptake Value using lean body mass with the originally published 128 multiplier for males. The patient size correction factor for males is $1.10 * \text{weight} - 128) * (\text{weight}/\text{height})^2$, and for females is $1.07 * \text{weight} - 148 * (\text{weight}/\text{height})^2$. |
| 126500 | Pittsburgh compound B C ¹¹ | A beta-amyloid PET radiotracer that is an analog of thioflavin T. |
| 126501 | Florbetaben F ¹⁸ | A beta-amyloid PET radiotracer. |
| 126502 | T807 F ¹⁸ | A PHF-tau PET radiotracer. |
| 126503 | Flubatine F ¹⁸ | A nicotinic $\alpha 4\beta 2$ receptor (nAChR) PET radiotracer. |
| 126510 | Monoclonal Antibody (mAb) ⁶⁴ Cu | A Cu 64 Monoclonal Antibody (mAb) PET Radiotracer. |
| 126511 | Monoclonal Antibody (mAb) ⁸⁹ Zr | A Zr 89 Monoclonal Antibody (mAb) PET Radiotracer. |
| 126512 | Trastuzumab ⁸⁹ Zr | A Zr 89 Trastuzumab PET Radiotracer. |
| 126513 | Cetuximab ⁸⁹ Zr | A Zr 89 Cetuximab PET Radiotracer. |
| 126514 | J591 ⁸⁹ Zr | A Zr 89 J591 PET Radiotracer. |

| Code Value | Code Meaning | Definition |
|------------|----------------------------------|---|
| 126515 | cU36 ^89^Zr | A Zr 89 cU36 PET Radiotracer. |
| 126516 | Bevacizumab ^89^Zr | A Zr 89 Bevacizumab PET Radiotracer. |
| 126517 | cG250-F(ab')(2) ^89^Zr | A Zr 89 cG250-F(ab')(2) PET Radiotracer. |
| 126518 | R1507 ^89^Zr | A Zr 89 R1507 PET Radiotracer. |
| 126519 | E4G10 ^89^Zr | A Zr 89 E4G10 PET Radiotracer. |
| 126520 | Df-CD45 ^89^Zr | A Zr 89 Df-CD45 PET Radiotracer. |
| 126600 | ^44^Scandium | ^44^Scandium |
| 126601 | ^51^Manganese | ^51^Manganese |
| 126602 | ^70^Arsenic | ^70^Arsenic |
| 126603 | ^90^Niobium | ^90^Niobium |
| 126604 | ^191m^Iridium | ^191m^Iridium |
| 126605 | ^43^Scandium | ^43^Scandium |
| 126606 | ^152^Terbium | ^152^Terbium |
| 126607 | ^52m^Manganese | ^52m^Manganese |
| 126700 | ATSM Cu^60^ | A Cu 60 ATSM PET radiotracer. |
| 126701 | ATSM Cu^61^ | A Cu 61 ATSM PET radiotracer. |
| 126702 | ATSM Cu^62^ | A Cu 62 ATSM PET radiotracer. |
| 126703 | Choline C^11^ | A C 11 Choline PET radiotracer. |
| 126704 | Fallypride C^11^ | A C 11 Fallypride PET radiotracer. |
| 126705 | Fallypride F^18^ | An F 18 Fallypride PET radiotracer. |
| 126706 | FLB 457 C^11^ | A C 11 FLB 457 PET radiotracer. |
| 126707 | Fluorotriopride F^18^ | An F 18 Fluorotriopride PET radiotracer. |
| 126708 | Fluoromisonidazole (FMISO) F^18^ | An F 18 Fluoromisonidazole PET radiotracer. |
| 126709 | Glutamine C^11^ | A C 11 Glutamine PET radiotracer. |
| 126710 | Glutamine C^14^ | A C 14 Glutamine PET radiotracer. |
| 126711 | Glutamine F^18^ | An F 18 Glutamine PET radiotracer. |
| 126712 | Flubatine F Flubatine F^18^18^ | An F An F 18 Flubatine PET radiotracer. 18-Flubatine PET-radiotracer. |
| 126713 | 2FA F^18^ | An F 18 2FA PET radiotracer. |
| 126714 | Nifene F^18^ | An F 18 Nifene PET radiotracer. |
| 126715 | CLR1404 I^124^ | An I 124 cancer targeted phospholipid ether PET radiotracer. |
| 126716 | CLR1404 I^131^ | An I 131 cancer targeted phospholipid ether PET radiotracer. |
| 126717 | THK5351 F^18^ | A PET radiotracer used for tau brain imaging. See Harada R, Okamura N, Furumoto S, Furukawa K, Ishiki A, Tomita N, et al. 18F-THK5351: A Novel PET Radiotracer for Imaging Neurofibrillary Pathology in Alzheimer Disease. Journal of Nuclear Medicine. 2016 Feb 1;57(2):208–14. doi:10.2967/jnumed.115.164848 |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 126718 | Flurpiridaz F ¹⁸ | <p>A PET radiotracer used for myocardial perfusion imaging.</p> <p>See Yu M, Nekolla SG, Schwaiger M, Robinson SP. The Next Generation of Cardiac Positron Emission Tomography Imaging Agents: Discovery of Flurpiridaz F-18 for Detection of Coronary Disease. <i>Seminars in Nuclear Medicine</i>. 2011 Jul;41(4):305–13. doi:10.1053/j.semnuclmed.2011.02.004</p> <p>See SNMMI. Flurpiridaz. http://interactive.snm.org/docs/PET_PROS/flurpiridaz_%2007_30_12_Final.pdf</p> |
| 126721 | Obinituzimab ⁸⁹ Zr | A Zr 89 Obinituzimab PET Radiotracer. |
| 126722 | Benralizumab ⁸⁹ Zr | A Zr 89 Benralizumab PET Radiotracer. |
| 126723 | Ocaratuzumab ⁸⁹ Zr | A Zr 89 Ocaratuzumab PET Radiotracer. |
| 126724 | Glembatumumab vedotin ⁸⁹ Zr | A Zr 89 Glembatumumab vedotin PET Radiotracer. |
| 126725 | Pinatuzumab vedotin ⁸⁹ Zr | A Zr 89 Pinatuzumab vedotin PET Radiotracer. |
| 126726 | Polatuzumab vedotin ⁸⁹ Zr | A Zr 89 Polatuzumab vedotin PET Radiotracer. |
| 126727 | Blinatumomab ⁸⁹ Zr | A Zr 89 Blinatumomab PET Radiotracer. |
| 126728 | Pegdinetanib ⁸⁹ Zr | A Zr 89 Pegdinetanib PET Radiotracer. |
| 126729 | AGN-150998 ⁸⁹ Zr | A Zr 89 AGN-150998 PET Radiotracer. |
| 126730 | MEDI-551 ⁸⁹ Zr | A Zr 89 MEDI-551 PET Radiotracer. |
| 126731 | GA201 ⁸⁹ Zr | A Zr 89 GA201 PET Radiotracer. |
| 126732 | Ecromeximab ⁸⁹ Zr | A Zr 89 Ecromeximab PET Radiotracer. |
| 126733 | Roledumab ⁸⁹ Zr | A Zr 89 Roledumab PET Radiotracer. |
| 126734 | XmAb5574 ⁸⁹ Zr | A Zr 89 XmAb5574 PET Radiotracer. |
| 126735 | Brentuximab ⁸⁹ Zr | A Zr 89 Brentuximab PET Radiotracer. |
| 126736 | Panitumumab ⁸⁹ Zr | A Zr 89 Panitumumab PET Radiotracer. |
| 126737 | Rituximab ⁸⁹ Zr | A Zr 89 Rituximab PET Radiotracer. |
| 126738 | Mogamulizumab ⁸⁹ Zr | A Zr 89 Mogamulizumab PET Radiotracer. |
| 126739 | Ublituximab ⁸⁹ Zr | A Zr 89 Ublituximab PET Radiotracer. |
| 126740 | Margetuximab ⁸⁹ Zr | A Zr 89 Margetuximab PET Radiotracer. |
| 126741 | SAR3419 ⁸⁹ Zr | A Zr 89 SAR3419 PET Radiotracer. |
| 126742 | Ranibizumab ⁸⁹ Zr | A Zr 89 Ranibizumab PET Radiotracer. |
| 126746 | cMAb U36 ⁸⁹ Zr | A Zr 89 cMAb U36 PET Radiotracer. |
| 126747 | DN30 ⁸⁹ Zr | A Zr 89 DN30 PET Radiotracer. |
| 126748 | Fresolimumab ⁸⁹ Zr | A Zr 89 Fresolimumab PET Radiotracer. |
| 126749 | TRC105 ⁸⁹ Zr | A Zr 89 TRC105 PET Radiotracer. |
| 126750 | 7E11 ⁸⁹ Zr | A Zr 89 7E11 PET Radiotracer. |
| 126751 | 7D12 ⁸⁹ Zr | A Zr 89 7D12 PET Radiotracer. |
| 126752 | 28H1 ⁸⁹ Zr | A Zr 89 28H1 PET Radiotracer. |
| 126753 | Nanocolloidal albumin ⁸⁹ Zr | <p>A Zr 89 nanocolloidal albumin PET Radiotracer.</p> <p>See Heuveling et al. Pilot Study on the Feasibility of PET/CT Lymphoscintigraphy with ⁸⁹Zr-Nanocolloidal Albumin for Sentinel Node Identification in Oral Cancer Patients. <i>J Nucl Med</i>. 2013 Apr;54(4):585-9. doi:10.2967/jnumed.112.115188. doi:10.2967/jnumed.112.115188.. http://jnm.snmjournals.org/content/54/4/585.long</p> |
| 126754 | Anti-B220 ⁸⁹ Zr | A Zr 89 Anti-B220 PET Radiotracer. |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 126755 | RO5323441 ^89^Zr | A Zr 89 RO5323441 PET Radiotracer. |
| 126756 | RO542908 ^89^Zr | A Zr 89 RO542908 PET Radiotracer. |
| 126760 | Df-FK ^89^Zr | A Zr 89 Df-FK peptide PET Radiotracer. See Jacobsen O et al. MicroPET Imaging of Integrin $\alpha_v\beta_3$ Expressing Tumors Using ^{89}Zr -RGD Peptides. Mol Imaging Biol. 2011 Dec; 13(6): 1224–1233. doi:10.1007/s11307-010-0458-y ; 10.1007/s11307-010-0458-y . http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3137711/ |
| 126761 | Df-FK-PEG(3) ^89^Zr | A Zr 89 Df-FK-PEG(3) peptide PET Radiotracer. See Jacobsen O et al. MicroPET Imaging of Integrin $\alpha_v\beta_3$ Expressing Tumors Using ^{89}Zr -RGD Peptides. Mol Imaging Biol. 2011 Dec; 13(6): 1224–1233. doi:10.1007/s11307-010-0458-y ; 10.1007/s11307-010-0458-y . http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3137711/ |
| 126762 | Df-[FK](2) ^89^Zr | A Zr 89 Df-[FK](2) peptide PET Radiotracer. See Jacobsen O et al. MicroPET Imaging of Integrin $\alpha_v\beta_3$ Expressing Tumors Using ^{89}Zr -RGD Peptides. Mol Imaging Biol. 2011 Dec; 13(6): 1224–1233. doi:10.1007/s11307-010-0458-y ; 10.1007/s11307-010-0458-y . http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3137711/ |
| 126763 | Df-[FK](2)-3PEG(4) ^89^Zr | A Zr 89 Df-[FK](2)-3PEG(4) peptide PET Radiotracer. See Jacobsen O et al. MicroPET Imaging of Integrin $\alpha_v\beta_3$ Expressing Tumors Using ^{89}Zr -RGD Peptides. Mol Imaging Biol. 2011 Dec; 13(6): 1224–1233. doi:10.1007/s11307-010-0458-y ; 10.1007/s11307-010-0458-y . http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3137711/ |
| 126801 | IEC61217 Patient Support Continuous Angle | Patient Support Continuous Angle in IEC PATIENT SUPPORT Coordinate System [IEC 61217]. |
| 126802 | IEC61217 Table Top Continuous Pitch Angle | Table Top Continuous Pitch Angle in the direction of the IEC TABLE TOP Coordinate System [IEC 61217]. |
| 126803 | IEC61217 Table Top Continuous Roll Angle | Table Top Continuous Roll Angle in the direction of the IEC TABLE TOP Coordinate System [IEC 61217]. |
| 126804 | IEC61217 Table Top Eccentric Axis Distance | Table Top Eccentric Axis Distance [IEC 61217]. |
| 126805 | IEC61217 Table Top Continuous Eccentric Angle | Table Top Continuous Eccentric Angle in the direction of the IEC TABLE TOP ECCENTRIC Coordinate System [IEC 61217]. |
| 126806 | IEC61217 Table Top Lateral Position | Table Top Lateral Position IEC TABLE TOP Coordinate System [IEC 61217]. |
| 126807 | IEC61217 Table Top Longitudinal Position | Table Top Longitudinal Position IEC TABLE TOP Coordinate System [IEC 61217]. |
| 126808 | IEC61217 Table Top Vertical Position | Table Top Vertical Position in IEC TABLE TOP Coordinate System [IEC 61217]. |
| 126809 | IEC61217 Gantry Continuous Roll Angle | Gantry Continuous Roll Angle in degrees of the radiation source, i.e., the rotation about the Y-axis of the IEC GANTRY coordinate system [IEC 61217]. |
| 126810 | IEC61217 Gantry Continuous Pitch Angle | Gantry Pitch Continuous Angle in degrees of the radiation source, i.e., the rotation about the X-axis of the IEC GANTRY coordinate system [IEC 61217]. |
| 126811 | IEC61217 Gantry Continuous Yaw Angle | Gantry Yaw Continuous Angle in degrees of the radiation source, i.e., about the Z-axis of the IEC GANTRY coordinate system [IEC 61217]. |
| 126830 | left first | The body position of the imaging subject relative to the imaging equipment is with the subject's left side positioned towards the front of the equipment viewed from the front |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 126831 | right first | The body position of the imaging subject relative to the imaging equipment is with the subject's right side positioned towards the front of the equipment viewed from the front |
| 126832 | posterior first | The body position of the imaging subject relative to the imaging equipment is with the subject's posterior (dorsal) side positioned towards the front of the equipment viewed from the front |
| 126833 | anterior first | The body position of the imaging subject relative to the imaging equipment is with the subject's anterior (ventral) side positioned towards the front of the equipment viewed from the front |
| 126850 | ILCR | The International Laboratory Code Registry (ILCR) of the Institute of Laboratory Animal Research (ILAR). See http://dels.nas.edu/global/ilar/lab-codes . |
| 127001 | Preclinical Small Animal Imaging Acquisition Context | A description of the conditions present during acquisition of images of small animals during preclinical research. |
| 127005 | Animal handling during specified phase | The conditions present related to the handling of an animal during a specified phase. |
| 127006 | Phase of animal handling | A specified phase of handling of an animal (e.g., transport, preparation). |
| 127010 | Biosafety conditions | A description of biosafety conditions (e.g., present during small animal handling for research). |
| 127011 | Reason for biosafety controls | The reason that biosafety controls are in place. |
| 127040 | Heating conditions | A description of heating conditions (e.g., present during small animal handling for research). |
| 127050 | Circadian effects | A description of Circadian effects (e.g., present during small animal handling for research). |
| 127060 | Nose cone | A form of face mask that fits over the nose used for delivery of inhalational anesthesia (usually for small animals) |
| 127061 | Nasal cannula | Cannula inserted in the nose used for delivery of inhalational anesthesia or other inhaled gases. |
| 127070 | Retro-orbital route | A route of administration of a substance via the retro-orbital venous sinus. Yardeni T et al. (2011). Retro-orbital injections in mice. Lab Animal, 40(5), 155–160. doi:10.1038/labon0511-155-10.1038/labon0511-155. http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3158461/ |
| 127101 | In home cage | The phase of handling of an animal that provides their normal environment between procedures. |
| 127102 | During transport | The phase of handling of an animal that is transport between environments. |
| 127103 | Staging prior to imaging | The phase of handling of an animal that is staging prior to an imaging procedure (e.g., after removal from their home environment and transport cage, and awaiting preparation, induction or imaging). During this phase the animals are not subject to intervention (e.g., injection, catheterization) (cf. 127104, DCM, "Preparation for imaging"). |
| 127104 | Preparation for imaging | The phase of handling of an animal that is preparation prior to an imaging procedure that involves handling and intervention (e.g., such as injection, catheterization) (cf. 127103, DCM, "Staging prior to imaging"). |
| 127110 | Housing role | The phase of handling of an animal during which the housing conditions are applicable. |
| 127120 | Animal housing | The manner in which animals are housed. |
| 127121 | Animal room type | The room type in which racks of animal cages are housed. |
| 127122 | Animal room identifier | The identifier of the room in which racks of animal cages are housed. |
| 127125 | Housing manufacturer | The manufacturer of the animal housing. |
| 127126 | Housing rack product name | The manufacturer's product name of the animal housing rack. |
| 127127 | Housing rack product code | The manufacturer's product code of the animal housing rack. |
| 127128 | Housing unit product name | The manufacturer's product name of the animal housing unit (or bottom of unit if separate lid). |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 127129 | Housing unit product code | The manufacturer's product code of the animal housing unit (or bottom of unit if separate lid). |
| 127130 | Housing unit lid product name | The manufacturer's product name of the animal housing unit lid. |
| 127131 | Housing unit lid product code | The manufacturer's product code of the animal housing unit lid. |
| 127140 | Number of racks per room | The number of animal housing racks per room. |
| 127141 | Number of housing units per rack | The number of animal housing units per rack. |
| 127142 | Housing unit location in rack | The location of the housing unit in the rack. |
| 127143 | Number of animals within same housing unit | The number of animals in a single housing (e.g., in a single cage, or in an animal carrier for imaging). |
| 127144 | Sex of animals within same housing unit | The sex of multiple animals contained in a single housing (cage). |
| 127145 | Sex of handler | The sex of the animal handler(s). |
| 127146 | Mixed sex | A group consisting of individuals of both sexes (both males and females). E.g., a group of animals in a cage, group of animal handlers. |
| 127150 | Total duration in housing | The total period of time that a subject spends in specified housing conditions. |
| 127151 | Housing change interval | The period of time between changes of housing conditions. |
| 127152 | Manual handling interval | The period of time between episodes of manual handling of the subject. |
| 127153 | Housing unit movement | A description of the manner in which the housing unit is moved (e.g., how a cage is transported). |
| 127160 | Housing unit width | The width of the housing unit (e.g., cage). |
| 127161 | Housing unit height | The height of the housing unit (e.g., cage). |
| 127162 | Housing unit length | The length of the housing unit (e.g., cage). |
| 127170 | Housing individually ventilated | Whether or not the housing unit (e.g., cage) is individually ventilated. |
| 127172 | Air changes | How frequently the entire volume of air within a defined space is replaced (e.g., within an animal cage). |
| 127175 | Housing unit reuse | Whether or not the housing unit has been previously used for different animals. |
| 127177 | Unused | The device (e.g., animal housing unit aka. cage) has not previously been used for different animals. |
| 127178 | Reused | The device (e.g., animal housing unit aka. cage) has previously been used for different animals. |
| 127180 | Bedding manufacturer | The manufacturer of the bedding material. |
| 127181 | Bedding product name | The manufacturer's product name of the bedding material. |
| 127182 | Bedding product code | The manufacturer's product code of the bedding material. |
| 127183 | Bedding volume | The volume of bedding material. |
| 127184 | Bedding mass | The mass of bedding material. |
| 127185 | Bedding depth | The depth of bedding material. |
| 127190 | Enrichment material | Material provided to enrich the environment of a small animal for the purpose of reducing stress, improving health and/or improving reproducibility of results. E.g., nesting material. |
| 127191 | Enrichment manufacturer | The manufacturer of the material provided to enrich the environment of a small animal. |
| 127192 | Enrichment material present | Whether or not material is provided to enrich the environment of a small animal for the purpose of reducing stress, improving health and/or improving reproducibility of results. E.g., nesting material. |
| 127193 | Exerciser device present | Whether or not an exerciser device is present. |
| 127195 | Shelter type | The type of shelter provided for small animals within their housing. |
| 127196 | Shelter manufacturer | The manufacturer of the small animal shelter. |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 127197 | Shelter product name | The manufacturer's product name of the small animal shelter. |
| 127198 | Shelter product code | The manufacturer's product code of the small animal shelter. |
| 127200 | Feed manufacturer | The manufacturer of the feed. |
| 127201 | Feed product name | The manufacturer's product name of the feed. |
| 127202 | Feed product code | The manufacturer's product code of the feed. |
| 127205 | Feed source | The source of animal feed. |
| 127210 | Feedback temperature regulation | Temperature is regulated by feedback from a temperature sensor used to control an active heating or cooling device. |
| 127214 | Total duration of light-dark cycle | The total duration of single light-dark cycle (e.g., usually 24 hours). |
| 127215 | Lights on time of day | The time of day when the lights are turned on. |
| 127220 | Igloo | Igloo shaped small animal shelter |
| 127221 | Red translucent igloo | Red translucent igloo-shaped small animal shelter |
| 127230 | Aspen chip bedding | Animal bedding material made from aspen chips. |
| 127231 | Aspen shaving bedding | Animal bedding material made from aspen shavings. |
| 127232 | Corn cob bedding | Animal bedding material made from (milled) corn cobs. |
| 127233 | Paper-based bedding | Animal bedding material made from paper. |
| 127234 | Pine chip bedding | Animal bedding material made from pine chips. |
| 127235 | Pine shaving bedding | Animal bedding material made from pine shavings. |
| 127240 | Carrier temperature sensor | A device for measuring the temperature of the carrier (holder) used for small animal imaging as a means of monitoring or regulating the animal's temperature (e.g., a non-magnetic thermocouple embedded in or attached to the carrier for MRI). |
| 127250 | Forced air heater | A method or device that uses forced hot air to maintain the body temperature of a subject. |
| 127251 | Heated imaging device | An imaging device that contains an integrated method of temperature regulation for maintaining the body temperature of the imaging subject. |
| 127252 | Heated patient support | A device that physically supports the patient and contains an integrated method of temperature regulation for maintaining the body temperature of the imaging subject (e.g., the carrier used for imaging a small animal such as a mouse). |
| 127253 | Heated water blanket | A blanket that uses circulating hot water to maintain the body temperature of a subject. |
| 127254 | Pre-heated pad | A pad that is pre-heated before use that is used to maintain the body temperature of a subject (e.g., pre-heated in a microwave or autoclave). |
| 127255 | Unheated | No mechanism is used to maintain the body temperature of a subject. |
| 127270 | NIH31 | NIH Open Formula Rat and Mouse Ration - 18% Crude Protein Autoclavable. Specification at http://www.ors.od.nih.gov/sr/dvr/Documents/SSFiles/nih31-137j2004.pdf . |
| 127271 | NIH07 | NIH07 open-formula, natural-ingredient rodent diet. |
| 127272 | AIN76 | AIN76 purified diet. |
| 127273 | AIN93G | AIN93 growth diet. |
| 127274 | AIN93M | AIN93 maintenance diet. |
| 127290 | Reverse osmosis purified water | Water that has been purified by reverse osmosis. |
| 127291 | Reverse osmosis purified, HCl acidified water | Water that has been purified by reverse osmosis and HCl acidified. |
| 127300 | Anesthesia Method Set | Information about different anesthesia methods used during a procedure (from AQI Schema AnesthesiaMethodSetType; see http://www.aqihq.org/aqischdoc/AnesthesiaMethodSetType.html). |

| Code Value | Code Meaning | Definition |
|---------------------------|--|--|
| 127301 | Anesthesia Method | Information about a single anesthesia method used during a procedure (from AQI Schema AnesthesiaMethodType; see http://www.aqihq.org/aqischdoc/AnesthesiaMethodType.html). |
| 127302 | Anesthesia Category | Category of anesthesia technique used during a procedure (from AQI Schema AnesthesiaCategoryCodeType; see http://www.aqihq.org/aqischdoc/AnesthesiaCategoryCodeType.html). |
| 127303 | Anesthesia SubCategory | Details of anesthesia technique used during a procedure (from AQI Schema AnesthesiaMethodType; see http://www.aqihq.org/aqischdoc/AnesthesiaMethodType.html). |
| 127310 | Airway Management Set | Information about airway management used during a procedure (from AQI Schema AirwayManagementSetType; see http://www.aqihq.org/aqischdoc/AirwayManagementSetType.html). |
| 127312 | Airway Management Method | Type of airway management used during a procedure (from AQI Schema AirwayManagementMethodCodeType; see http://www.aqihq.org/aqischdoc/AirwayManagementMethodCodeType.html). |
| 127313 | Airway Sub-Management Method | Subtype of airway management of airway management used during a procedure (from AQI Schema AirwayManagementSubMethodCodeType; see http://www.aqihq.org/aqischdoc/AirwayManagementSubMethodCodeType.html). |
| 127320 | Medications Set | Set of medications applied during the anesthesia (from AQI Schema MedicationsSetType; see http://www.aqihq.org/aqischdoc/MedicationsSetType.html). |
| 127330 | Carrier gas | A gas that delivers an inhalational anesthetic to a subject (e.g., air, oxygen). |
| 127370 | Animal housing room | A room for keeping and raising animals for observation or research (vivarium). |
| 127371 | Preparation room | A room for preparing a subject (such as a research small animal) prior to a procedure (such as an imaging procedure). |
| 127372 | Imaging procedure room | A room in which an imaging procedure is performed. |
| 127390 | Locally manufactured product | A product that is locally manufactured (i.e., within the facility or institution). |
| 127391 | Food treat | A food item that is out of the ordinary and provides pleasure. |
| 127400 | Exogenous substance | A substance from a source external to a subject. E.g., a homograft or xenograft (including tumor cells or tissue), fibrils, viruses, cytokines or toxins. |
| 127401 | Tissue of origin | The tissue from which a substance originated. E.g., the tissue or organ from which a homograft or xenograft (including tumor cells or tissue) was obtained. |
| 127402 | Taxonomic rank of origin | The taxonomic rank value (e.g., genus, subgenus, species or subspecies) from which a substance originated. E.g., the species of animal from which a homograft or xenograft (including tumor cells or tissue) was obtained. |
| 127411- 127411 | Strain- Strain | An An identifier of a group of animals that is genetically uniform. identifier of a group of animals that is genetically uniform. |
| 127412- 127412 | Strain Strain description description | A A description of a group of animals that is genetically uniform. description of a group of animals that is genetically uniform. |
| 127413- 127413 | Nomenclature Nomenclature | A A system of names or descriptions used in a particular field. system of names or descriptions used in a particular field. |
| 127414- 127414 | Genetic Genetic modifications modifications | An An identifier of a specific variation of a targeted gene or introduced transgene. identifier of a specific variation of a targeted gene or introduced transgene. |
| 127415- 127415 | Genetic Genetic modifications description modifications description | A A description of a specific variation of a targeted gene or introduced transgene. description of a specific variation of a targeted gene or introduced transgene. |

| Code Value | Code Meaning | Definition | |
|------------|---|--|----------------------------|
| 127450 | Stereotactic coordinates | The three dimensional coordinates that identify a (usually small) target within the body. E.g., for the purpose of ablation, biopsy, lesion, injection, stimulation, implantation or radiosurgery. | |
| 127451 | Position reference indicator | The part of the imaging target that was used as a reference point associated with a specific Frame of Reference. The Position Reference Indicator may or may not coincide with the origin of the fixed frame of reference related to the Frame of Reference. For a Patient-related Frame of Reference, this is an anatomical reference point, often a well-known surface anatomical point. | |
| 127460 | Tumor graft | Tumor cells or tissue or other material obtained from a donor intended to be implanted in a research subject. | |
| 127801 | Embryonic Kidney | The kidney of an embryo. E.g., used as the source of human embryonic kidney cell lines, though the concept is not specifically human. | |
| 127851 | Human alpha synuclein preformed fibrils | Preformed fibrils of human alpha synuclein. | |
| 127852 | Mouse alpha synuclein preformed fibrils | Preformed fibrils of mouse alpha synuclein. | |
| 127853 | Human Tau preformed fibrils | Preformed fibrils of human Tau. | |
| 127854 | Mouse Tau preformed fibrils | Preformed fibrils of mouse Tau. | |
| 127855 | Non-ionic iodinated contrast agent | An iodine containing X-Ray contrast agent that does not dissociate in water, therefore, is lower in osmolality, and has a significantly lower incidence of adverse reactions than ionic iodinated contrast agents. | Rep "Non agen SNC |
| 127856 | Heart valve flail | Unrestricted motion of a heart valve. E.g., a prolapsing mitral valve leaflet may be classified as non-flail or flail (abnormal leaflet coaptation or ruptured chordae). | |
| 127857 | Glucose Measurement Date | The date that a glucose measurement was performed. | |
| 127858 | Glucose Measurement Time | The time that a glucose measurement was performed. | |
| 127901 | SPECT of whole body | A nuclear medicine imaging procedure using a single photon emissive radionuclide with tomographic reconstruction, over an anatomical extent of the entire body. | |
| 127902 | SPECT CT of whole body | A nuclear medicine imaging procedure using a single photon emissive radionuclide with tomographic reconstruction combined with transmissive X-Ray computed tomography for attenuation compensation, over an anatomical extent of the entire body. | |
| 128001 | Add Addendum to Report | The task is to add an addendum to an existing report. | |
| 128002 | Modality to Read | The imaging study to be read involves the specified modality | |
| 128003 | Reader Specialty | The specialty of the reader of the imaging study | |
| 128004 | Report Requested | The type of report that is being requested. | |
| 128005 | Final Report | A final report is a report that is expected to contain all information and all the reportable findings. | |
| 128006 | Abdominal Imaging Specialty | A medical specialty concerned with abdominal imaging. | |
| 128007 | Cardiac Imaging Specialty | A medical specialty concerned with cardiac imaging. | |
| 128008 | Head and Neck Imaging Specialty | A medical specialty concerned with head and neck imaging. | |
| 128009 | Musculoskeletal Imaging Specialty | A medical specialty concerned with musculoskeletal imaging. | |
| 128010 | Neurology Specialty | A medical specialty concerned with neurology. | |
| 128011 | Neuroradiologic Imaging Specialty | A medical specialty concerned with neuroradiologic imaging. | |
| 128012 | OB/Gyn Imaging Specialty | A medical specialty concerned with obstetric and gynecologic imaging. | |

| Code Value | Code Meaning | Definition |
|------------|--------------------------------|---|
| 128013 | Oncologic Imaging Specialty | A medical specialty concerned with oncologic imaging. |
| 128014 | Oncology Specialty | A medical specialty concerned with oncology. |
| 128015 | Thoracic Imaging Specialty | A medical specialty concerned with thoracic imaging. |
| 128016 | Pediatric Imaging Specialty | A medical specialty concerned with pediatric imaging. |
| 128017 | Vascular Imaging Specialty | A medical specialty concerned with vascular imaging. |
| 128040 | FWP by GA, Campbell, 1991 | <p>Fetal body weight growth percentile estimated from gestational age by method of Campbell 1991.</p> <p>See Campbell WA, Nardi D, Vintzileos AM, Rodis JF, Turner GW, Egan JF. Transverse Cerebellar Diameter/Abdominal Circumference Ratio Throughout Pregnancy: A Gestational Age-Independent Method to Assess Fetal Growth. Obstetrics & Gynecology. 1991;77(6):893–6. Available at: http://journals.lww.com/greenjournal/Fulltext/1991/06000/Transverse_Cerebellar_Diameter_Abdominal.19.aspx.</p> |
| 128041 | FWP by GA, Hadlock, 1991 | <p>Fetal body weight growth percentile estimated from gestational age by method of Hadlock 1991.</p> <p>See Hadlock FP, Harrist RB, Martinez-Poyer J. In utero analysis of fetal growth: a sonographic weight standard. Radiology. 1991 Oct 1;181(1):129–33. DOI:10.1148/radiology.181.1.1887021. Available at: http://dx.doi.org/10.1148/radiology.181.1.1887021.</p> |
| 128120 | Plane through Superior Extent | A plane passing through the superior extent (i.e., towards the head) of the referenced feature |
| 128121 | Plane through Inferior Extent | A plane passing through the inferior extent (i.e., towards the feet) of the referenced feature |
| 128122 | Plane through Proximal Extent | A plane passing through the proximal extent (i.e., towards the torso) of the referenced feature |
| 128123 | Plane through Distal Extent | A plane passing through the distal extent (i.e., towards the end of the extremity) of the referenced feature |
| 128124 | Plane through Medial Extent | A plane passing through the medial extent (i.e., towards the midline of the body) of the referenced feature |
| 128125 | Plane through Lateral Extent | A plane passing through the lateral extent (i.e., away from the midline of the body) of the referenced feature |
| 128126 | Plane through Leftmost Extent | A plane passing through the leftmost extent of the referenced feature |
| 128127 | Plane through Rightmost Extent | A plane passing through the rightmost extent of the referenced feature |
| 128128 | Plane through Anterior Extent | A plane passing through the anterior extent of the referenced feature |
| 128129 | Plane through Posterior Extent | A plane passing through the posterior extent of the referenced feature |
| 128130 | Plane through Center | A plane passing approximately through the center of the referenced feature |
| 128137 | Geometric Centerpoint | The geometric center point of a feature, such as an organ, implanted device or morphologic anomaly. |
| 128138 | Center of Mass | The center of mass of a feature, such as an organ, implanted device or morphologic anomaly |
| 128144 | Impaired Renal Function | The procedure is contraindicated for patients with impaired renal function. |
| 128151 | Laser Cross-hairs | Positioning the patient based on alignment of laser cross-hairs. |
| 128160 | Acquired Volume | The anatomical region represented in the acquired data. |
| 128170 | Abdominal Radiology | Organizational department or section responsible for Abdominal Radiology |
| 128171 | Biomedical Engineering | Organizational department or section responsible for Biomedical Engineering |
| 128172 | Cardiovascular Radiology | Organizational department or section responsible for Cardiovascular Radiology |
| 128173 | Information Technology | Organizational department or section responsible for Information Technology |

| Code Value | Code Meaning | Definition | |
|------------|-----------------------------------|--|--|
| 128174 | Medical Physics | Organizational department or section responsible for Medical Physics | |
| 128175 | Musculoskeletal Radiology | Organizational department or section responsible for Musculoskeletal Radiology | |
| 128177 | Pediatric Radiology | Organizational department or section responsible for Pediatric Radiology | |
| 128179 | Thoracic Radiology | Organizational department or section responsible for Thoracic Radiology | |
| 128180 | For RT Workflow | Instances available as input for a general radiotherapeutic workflow. | |
| 128181 | Diagnostic Source Images | Instances used to make a diagnosis. | |
| 128182 | Segmentation Result | Instances created during a segmentation session. | |
| 128183 | Registration Result | Instances created during a spatial registration. | |
| 128184 | Pre-Planning Result | Instances created during preparation prior to planning. | |
| 128185 | RT Prescription Result | Instances created for prescription of a radiotherapeutic treatment. | |
| 128186 | Dose Calculation Image Series | Image instances that represent an image series that is intended to be the primary input for the dose calculation. Any parameters required for dose calculation (such as electron density) is derived from this series. | |
| 128187 | Coordinate Alignment Image Series | Image instances that represent an image series from which the display coordinate system for a radiotherapeutic treatment planning is derived. Typically this series does not provide the parameters required for the dose calculation. | |
| 128188 | RT Treatment Simulation Result | Instances created during the simulation of a radiotherapeutic treatment delivery session. May also include input objects actually used. | |
| 128189 | RT Planning Result | Instances created during the planning of a radiotherapeutic treatment. May also include input objects actually used. | |
| 128190 | Dosimetric Result | Instances created during the creation of the dosimetric result of a radiotherapeutic treatment plan. May also include input objects actually used. | |
| 128191 | Patient Setup Verification Result | Instances created during the verification of the patient's treatment position. May also include input objects actually used. | |
| 128192 | RT Treatment Session Result | Instances created during the treatment session. May also include input objects actually used. | |
| 128193 | RT Treatment Course Summary | Instances created during a treatment course. May also include input objects actually used. | |
| 128194 | RT Treatment QA Result | Instances created during evaluation of the treatment delivery quality. May also include input objects actually used. | |
| 128195 | For Diagnosis | Instances available to make a diagnosis. | |
| 128196 | For Segmentation | Instances available for segmentation. | |
| 128197 | For RT Prescription | Instances available for prescribing a radiotherapeutic treatment delivery. | |
| 128198 | For RT Treatment Planning | Instances available for creating a radiotherapeutic treatment plan. | |
| 128199 | For Plan Comparison | Instances available for comparing plans. | |
| 128200 | For RT Plan Summation | Instances available to combine radiotherapeutic plans or doses. | |
| 128201 | For Physician Review | Instances available for review by a physician. | |
| 128202 | For Physicist Review | Instances available for review by a physicist. | |
| 128203 | For Tumor Board | Instances available for review of a tumor board. | |
| 128204 | For Plan Quality Assurance | Instances available to perform quality assurance of a radiotherapeutic treatment delivery plan. | |
| 128205 | For Machine Quality Assurance | Instances available to perform quality assurance of one of the hardware or software components involved in a radiotherapeutic treatment delivery. | |
| 128206 | For Patient Setup Verification | Instances available for verification of the patient treatment position. | |
| 128207 | For Clinical Trial Submission | Instances available for submission for a clinical trial study. | |
| 128208 | For Tumor Registry | Instances available for submission to a tumor registry. | |

| Code Value | Code Meaning | Definition |
|------------|---------------------------------------|--|
| 128209 | RT Workflow Input Used | Instances used as an input of a general radiotherapeutic workflow. |
| 128210 | RT Prescription Input Used | Instances used for prescribing a radiotherapeutic treatment delivery. |
| 128211 | RT Treatment Planning Input Used | Instances used to create a radiotherapeutic treatment plan. |
| 128212 | RT Plan Summation Input Used | Instances used to combine radiotherapeutic plans or doses. |
| 128213 | Physician Review Input Used | Instances used for review by a physician. |
| 128214 | Physicist Review Input Used | Instances used for review by a physicist. |
| 128215 | Plan Quality Assurance Input Used | Instances used to perform quality assurance of a radiotherapeutic treatment delivery plan. |
| 128216 | Machine Quality Assurance Input Used | Instances used to perform quality assurance of one of the hardware or software components involved in a radiotherapeutic treatment delivery. |
| 128217 | Patient Setup Verification Input Used | Instances used during verification of the patient treatment position. |
| 128218 | Diagnosis Input Used | Instances used to make a diagnosis. |
| 128219 | Contouring Input Used | Instances used for segmentation. |
| 128220 | Plan Comparison Input Used | Instances used for comparing plans. |
| 128221 | Tumor Board Input Used | Instances used for review of a tumor board. |
| 128222 | Tumor Registry Input Used | Instances submitted to a tumor registry. |
| 128223 | Clinical Trial Submission Input Used | Instances submitted to a clinical trial study. |
| 128224 | Source measurement | Measurement used as the source for derivation. |
| 128225 | Source report | Report used as the source for derivation. |
| 128226 | Source raw data | Raw Data used as the source for derivation. |
| 128230 | Pulse Sequence Name | Name of an MR pulse sequence for annotation purposes. Potentially vendor-specific name. |
| 128250 | Structural image for image processing | A structural image used for image processing. |
| 128251 | Flow image for image processing | A flow image used for image processing. |
| 128252 | OCT-A amplitude decorrelation | OCT angiography method that de-correlates the amplitudes between two consecutive B-scans from the narrowed spectral bands was computed, and all the decorrelation values within certain repeated B-scans were averaged to visualize blood vessels. Methods and algorithms for optical coherence tomography-based angiography: a review and comparison. Anqi Zhang ; Qinqin Zhang ; Chieh-Li Chen ; Ruikang K. Wang (2015). See http://biomedicaloptics.spiedigitallibrary.org/article.aspx?articleid=2464650#QuantitativeComparisons . |
| 128253 | OCT-A complex variance | OCT angiography method based on variations in the complex (amplitude and phase) OCT signal from repeated B-scans at the same location. There are a number of factors that may cause a change in the OCT signal frequency relative to the signal due to static tissue background. These factors include, for example, the Doppler effect that induces optical frequency shift and the change in backscattering due to the particles that are moving in and out of the OCT-probe volume during imaging. The changes in signal frequency cause the changes in both the amplitude and the phase of the OCT signal. Comparison of the complex (amplitude and phase) signal from repeated B-scans at the same location provides an image that has higher contrast in areas of erythrocyte motion. This method is referred to as OCT-based micro-angiography – complex (OMAGC). |
| 128254 | OCT-A speckle variance | OCT angiography method that analyzes the temporal or spatial statistics of the intensity of speckle from OCT images and identifies blood vessels. |
| 128255 | OCT-A correlation mapping | OCT angiography method that differentiates flow regions. Static regions usually have high correlation values while flow regions have lower correlation values. |

| Code Value | Code Meaning | Definition |
|------------|---|--|
| 128256 | Doppler OCT-A | OCT angiography method that utilizes the Doppler phase resolved information to provide the velocity of flow. Sometimes referred to as the phase variance method. |
| 128257 | Retina depth encoded vasculature flow | Image using pseudo colors to illustrate multiple OPTENF images obtained at various depth levels within the retina from the OPT flow volume. |
| 128258 | Retina depth encoded structural reflectance map | Image using pseudo colors to illustrate multiple OPTENF images obtained at various depth levels within the retina from the OPT structural volume. |
| 128259 | Retina vasculature flow | Image that illustrates the vasculature flow within the entire retina. Generated from the OPT flow volume with pixels approximately from inner limiting membrane (ILM) to photoreceptor inner segment/ellipsoid region (ISe). |
| 128260 | Retina structural reflectance map | Image that illustrates the OCT structural reflectance within the entire retina. Generated from the OPT structural volume with pixels approximately from inner limiting membrane (ILM) to photoreceptor inner segment/ellipsoid region (ISe). |
| 128261 | Vitreous vasculature flow | Image that illustrates the vasculature flow within the vitreous. Generated from the OPT flow volume with pixels approximately from a selected location anterior to ILM, to ILM. This space/potential space is referred clinically as the Vitreo-retinal Interface (VRI). |
| 128262 | Vitreous structural reflectance map | Image that illustrates the OCT structural reflectance within the vitreous. Generated from the OPT structural volume with pixels approximately from a selected location that is anterior to ILM, to ILM. This space/potential space is referred clinically as the Vitreo-retinal Interface (VRI). |
| 128263 | Radial peripapillary vasculature flow | Image that illustrates the OCT vasculature flow within the RNFL around the optic disk. Generated from the OPT flow volume with pixels approximately from ILM to the outer boundary of the RNFL. |
| 128264 | Radial peripapillary structural reflectance map | Image that illustrates the OCT structural reflectance within the RNFL around the optic disk. Generated from the OPT structural volume with pixels approximately from ILM to the outer boundary of the RNFL. |
| 128265 | Superficial retina vasculature flow | Image that illustrates the vasculature flow within the anterior layers of retina. Generated from the OPT flow volume with pixels approximately from ILM to ganglion cell layer/inner plexiform layer (GCL/IPL). |
| 128266 | Superficial retina structural reflectance map | Image that illustrates the OCT structural reflectance within the anterior layers of retina. Generated from the OPT structural volume with pixels approximately from ILM to ganglion cell layer/inner plexiform layer (GCL/IPL). |
| 128267 | Middle inner retina vasculature flow | Image that illustrates the vasculature flow in the capillaries that connect the superficial and deeper capillary beds. Generated from the OPT flow volume with pixels approximately at the level of the IPL. Sometimes referred to as the intermediate retina flow. |
| 128268 | Middle inner structural reflectance map | Image that illustrates the OCT structural reflectance in the capillaries that connect the superficial and deeper capillary beds. Generated from the OPT structural volume with pixels approximately at the level of the IPL. Sometimes referred to as the intermediate retina flow. |
| 128269 | Deep retina vasculature flow | Image that illustrates the vasculature flow at the level of the plexiform layers within the retina. Generated from the OPT flow volume with pixels approximately from inner plexiform layer (IPL) to outer plexiform layer (OPL). |
| 128270 | Deep retina structural reflectance map | Image that illustrates the structural reflectance at the level of the plexiform layers within the retina. Generated from the OPT structural volume with pixels approximately from inner plexiform layer (IPL) to outer plexiform layer (OPL). |
| 128271 | Outer retina vasculature flow | Image that illustrates the vasculature flow at the level of the posterior layers of the retina (outer retina). Generated from the OPT flow volume with pixels approximately in the translucent layers, from OPL to ISe. Sometimes referred to as flow in the deep avascular structure. Note For normal eyes, this image would not show detectable vascular flow. |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 128272 | Outer retina structural reflectance map | Image that illustrates the structural reflectance at the level of the posterior layers of the retina (outer retina). Generated from the OPT structural volume with pixels approximately in the translucent layers, from OPL to ISe. |
| 128273 | Choriocapillaris vasculature flow | Image that illustrates the vasculature flow at the level of the choriocapillaris. Generated from the OPT flow volume with pixels approximately below the retinal pigment epithelium (RPE) encompassing the thickness of choriocapillaris. |
| 128274 | Choriocapillaris structural reflectance map | Image that illustrates the structural reflectance at the level of the choriocapillaris. Generated from the OPT structural volume with pixels approximately below the retinal pigment epithelium (RPE) encompassing the thickness of choriocapillaris. |
| 128275 | Choroid vasculature flow | Image that illustrates the vasculature flow at the level of the choroid. Generated from the OPT flow volume with pixels approximately below RPE, encompassing the thickness of choroid. |
| 128276 | Choroid structural reflectance map | Image that illustrates the structural reflectance at the level of the choroid. Generated from the OPT structural volume with pixels approximately below RPE, encompassing the thickness of choroid. |
| 128277 | Whole eye vasculature flow | Image that illustrates the vasculature flow at the entire posterior segment, including retina and choroid. Generated from the OPT flow volume with pixels encompassing the entire OCT scan. |
| 128278 | Whole eye structural reflectance map | Image that illustrates the structural reflectance from the entire posterior segment, including retina and choroid. Generated from the OPT structural volume with pixels encompassing the entire OCT scan. |
| 128279 | Cube B-scan pattern | A series of densely spaced, parallel B-scans of the same length covering an area. |
| 128280 | Raster B-scan pattern | A series of sparsely spaced, parallel B-scans of the same length covering an area. |
| 128281 | Line B-scan pattern | A single line B-scan. |
| 128282 | Radial B-scan pattern | A series of B-scans arranged in a radial pattern of the same length covering an area. |
| 128283 | Cross B-scan pattern | A pair of horizontal and vertical B-scans in a cross pattern. |
| 128284 | Circle B-scan pattern | A single circular pattern B-scan. |
| 128285 | Concentric circle B-scan pattern | A series of concentric circular pattern B-scans with various diameters. |
| 128286 | Circle-raster B-scan pattern | A series of concentric circular pattern B-scans with various diameters combined with a series of raster B-scan patterns. |
| 128287 | Circle-radial B-scan pattern | A series of concentric circular pattern B-scans with various diameters combined with a series of radial B-scan patterns. |
| 128288 | Grid B-scan pattern | A series of vertical and horizontal B-scans. |
| 128289 | Outer surface of RNFL | Retinal surface located approximately at the outer boundary of the retinal nerve fiber layer (RNFL). |
| 128290 | Outer surface of GCL | Retinal surface approximately at the outer boundary of the Ganglion Cell Layer (GCL). |
| 128291 | Outer surface of IPL | Retinal surface located approximately at the outer boundary of the Inner Plexiform Layer (IPL). |
| 128292 | Outer surface of INL | Retinal surface located approximately at the outer boundary of the Inner Nuclear Layer (INL). |
| 128293 | Outer surface of OPL | Retinal surface located approximately at the outer boundary of the Outer Plexiform Layer (OPL). |
| 128294 | Outer surface of HFL | Retinal surface located approximately at the outer boundary of the Henle Fiber Layer (HFL) when present. |
| 128295 | Surface between Inner and Outer Segments of the photoreceptors | Retinal surface approximately located at the boundary between the Inner Segments and Outer Segments of the photoreceptors. |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 128296 | Surface of the interdigitating zone between retina and RPE | Retinal surface located approximately at the retina-RPE interdigitating zone when present. |
| 128297 | Anterior surface of the RPE | Retinal surface located approximately at the anterior surface of the Retinal Pigment Epithelium (RPE). |
| 128298 | Surface of the center of the RPE | Retinal surface located approximately at the center of the Retinal Pigment Epithelium (RPE). |
| 128299 | Posterior surface of the RPE | Retinal surface located approximately at the posterior surface of the Retinal Pigment Epithelium (RPE). |
| 128300 | Outer surface of the BM | Retinal surface located approximately at the outer boundary of the Bruch's Membrane (BM). |
| 128301 | Surface of the choroid-sclera interface | Retinal surface located approximately at the choroid-sclera interface (SC). |
| 128302 | Outer surface of the CC | Retinal surface located approximately at the outer boundary of the choriocapillaris (CC). |
| 128303 | OCT B-scan analysis | Values are derived from performing analysis on OCT B-scans |
| 128401 | Patient Radiation Dose Report | Report title for the report of estimated absorbed energy from ionizing radiation to a patient. |
| 128402 | Radiation Dose Estimate | Estimate of absorbed energy from ionizing radiation. |
| 128403 | Radiation Dose Estimate Name | Name used to identify a radiation dose estimate. |
| 128404 | Anthropomorphic Model | A mathematical description of a patient model for estimating radiation dose that describes or is thought of as having a human form or human attributes. |
| 128405 | Breast Thickness | Thickness of the breast. |
| 128406 | BREP Radiation Transport Model | Boundary based representation of the model for the estimation of radiation transport and absorbed dose in materials. |
| 128407 | DgN | Normalized Mean Glandular Dose (DgN) is the conversion value used to calculate the absorbed dose from radiation to the fibroglandular tissue component of the breast from the exposure in air. |
| 128408 | Patient AP Dimension | The size of a patient in the anterior-posterior dimension. |
| 128409 | Patient Lateral Dimension | The size of a patient in the lateral dimension. |
| 128410 | SSDE Conversion Factor | Conversion factor for Size Specific Dose Estimate (SSDE) calculations from CTDIvol. |
| 128411 | Backscatter | Scattering of radiation in a direction opposite to that of the incident radiation. |
| 128412 | Radiation Dose Estimate Representation | The description of the representation of the estimated absorbed energy to an organ, a set of organs or the whole body, e.g., surface segmentation, mesh, parametric map, RT dose, Secondary Capture SOP Instances, etc. |
| 128413 | Distribution Representation | The form of the representation used to describe the distribution of the radiation dose. |
| 128414 | Radiation Dose Representation Data | The absorbed energy data estimated by the method. |
| 128415 | Radiation Dose Estimate Methodology | The methodology and parameters used to estimate the radiation dose to an organ, the whole body or a phantom. |
| 128416 | SR Instance Used | Reference to an SR instance used. |
| 128417 | Patient Model Type | The type of model used to define the shape, size, location of objects, etc. to represent a patient or phantom for use in radiation transport analysis. |
| 128418 | Simple Object Model | A simple object (e.g., cylinder) used to model a patient or organ. |
| 128420 | Radiation Transport Model Type | The type of model used to estimate energy transport and absorbed dose in materials. |
| 128421 | Geometric Radiation Transport Model | A model that uses geometrical shapes for the estimation of radiation transport and absorbed dose in materials. |
| 128422 | Voxelized Radiation Transport Model | A model that uses volumetric elements for the estimation of radiation transport and absorbed dose in materials. |

| Code Value | Code Meaning | Definition |
|------------|--|---|
| 128423 | Mesh Radiation Transport Model | A model that uses a mesh structure representation for the estimation of radiation transport and absorbed dose in materials. |
| 128424 | NURBS Radiation Transport Model | A model that uses surfaces of a non-uniform rational B-spline (NURBS) based representation for the estimation of radiation transport and absorbed dose in materials. |
| 128425 | Patient Radiation Dose Model Data | The data from the model used to estimate radiation dose to a patient or organ. |
| 128426 | Patient Radiation Dose Model Reference | Rationale or reference to the methodology for the model used in the estimation of radiation dose. |
| 128427 | Patient Model Demographics | The demographics for which the patient model used by the radiation dose estimation method is intended. |
| 128428 | Model Minimum Age | The minimum age used in the patient model in the radiation dose estimation method. |
| 128429 | Event UID Used | Unique Identifier of an event used. |
| 128430 | Model Maximum Age | The maximum age used in the patient model in the radiation dose estimation method. |
| 128431 | Beam Block | A material placed in the radiation beam that is used to completely attenuate the beam in a specific region of the field of view. |
| 128433 | Tissue Air Ratio | Ratio of the absorbed dose at a given depth in tissue to the absorbed dose at the same point in air. |
| 128434 | Radiation Dose Estimate Parameters | The parameters used in the algorithms for determining the radiation dose to a patient, organs, or any material. |
| 128436 | Radiation Dose Composite Parameters | Reference to the SOP Instance that describes the parameters and values used in the algorithms for determining the radiation dose to a patient, organs, or any material. |
| 128437 | Model Patient Sex | The sex used in the patient model in the radiation dose estimation method. |
| 128438 | Model Minimum Weight | The minimum weight used in the patient model in the radiation dose estimation method. |
| 128439 | Model Minimum Height | The minimum height used in the patient model in the radiation dose estimation method. |
| 128441 | Model Maximum Weight | The maximum weight used in the patient model in the radiation dose estimation method. |
| 128442 | Model Maximum Height | The maximum height used in the patient model in the radiation dose estimation method. |
| 128444 | Spatial Registration Reference | Reference to the Spatial Registration instance or Deformable Spatial Registration instance. |
| 128446 | Registration Method | Name of the method used to register the frame of reference for two or more data sets. |
| 128447 | Spatial Fiducials | Reference to Spatial Fiducials SOP Instance. |
| 128452 | Correction Factor | A factor used to make an adjustment to a calculation to account for deviations. |
| 128453 | Curve Fit Parameter | A value used in a mathematical function to create a curve or a function that approximates a set of data. |
| 128455 | Homogeneity Factor | A value used to describe the uniformity or composition of a data set or a material that relates to the same degree of variability. |
| 128456 | Patient Model Registration | The spatial registration used in the patient model in the radiation dose estimation method. |
| 128457 | X-Ray Beam Attenuator | Attenuator in the radiation beam that may alter the estimated radiation dose to the patient, organs, or phantoms. |
| 128458 | Attenuator Category | The type of object in the radiation beam that may alter the estimated radiation dose to the patient, organs, or phantoms. |
| 128459 | Table | The table a patient is sitting, standing, or lying on and that is in the radiation beam such that it may alter the estimated radiation dose to the patient, organs, or phantoms. |
| 128460 | Table Core | The core material of a table a patient is sitting, standing, or lying on and that is in the radiation beam such that it may alter the estimated radiation dose to the patient, organs, or phantoms. |
| 128461 | Table Outer Liner | The outer shell of a table a patient is sitting, standing, or lying on and that is in the radiation beam such that it may alter the estimated radiation dose to the patient, organs, or phantoms. |

| Code Value | Code Meaning | Definition |
|------------|---|---|
| 128462 | Table Pad | The padding on a table a patient is sitting, standing, or lying on and that is in the radiation beam such that it may alter the estimated radiation dose to the patient, organs, or phantoms. |
| 128464 | Radiation Dose Estimation Parameter Type | Parameters used in mathematical, simulation, or empirical calculations for radiation dose estimation. |
| 128465 | Equivalent Attenuator Material | The equivalent material used to estimate the reduction in radiation intensity. |
| 128468 | Attenuator Description | An explanation of the actual attenuator material used in the estimation of radiation dose. |
| 128469 | Equivalent Attenuator Thickness | The thickness of a specified material that provides the same attenuation as the actual attenuator. |
| 128470 | X-Ray Attenuator Model Data | The stored data from the model used to represent the X-Ray beam attenuator. |
| 128472 | X-Ray Beam Attenuator Model | Model of the attenuator used in the estimation of radiation dose. |
| 128474 | X-Ray Beam Attenuator Model Reference | Reference to the methodology or rationale for the model of the beam attenuator used in the estimation of radiation dose. |
| 128475 | X-Ray Beam Attenuator Model Registration | Spatial registration of the beam attenuator model. |
| 128476 | Radiation Dose Estimate Method | The container for the radiation dose estimation methods and parameters. |
| 128477 | Radiation Dose Estimate Method Type | Type of method used to estimate the radiation dose to a patient, organs or phantoms. |
| 128479 | Tabular Data Algorithm | Algorithms that use a table of values indexed by a key. |
| 128480 | Analytical Algorithm | Algorithms that use mathematical models that have a deterministic result. |
| 128481 | Empirical Algorithm | Algorithms that use mathematical models that use parameters derived from observation. |
| 128482 | Radiation Dose Estimate Method Reference | A reference to the methodology or rationale for the estimation methodology used for the estimation of radiation dose. |
| 128484 | Isodose | Representation of radiation dose of equal intensity as a surface, curve, or line. |
| 128485 | Skin Dose Map | Representation of radiation dose intensity at the surface on the skin. |
| 128487 | 3D Dose Map | Representation of radiation dose as a 3D shape or object. |
| 128488 | Dose Gradient | Representation of the change in radiation dose with respect to the change in another variable. Often represented as a change with respect to time or distance. |
| 128492 | Physical Support | Material that is in radiation beam that is used to provide physical support to the patient or other objects. |
| 128494 | Patient Segmented Model | A model for estimating radiation dose defined from the actual patient anatomy or characteristics. |
| 128496 | Dose Point Cloud | Radiation dose represented as a distribution of points. |
| 128497 | Measured Radiation Dose | The measured amount of energy that is deposited in a material by ionizing radiation. |
| 128500 | Patient Radiation Dose Model | A computational representation of a human body or other object used to simulate the attenuation of radiation in human tissue. |
| 128511 | Reference to Uncertainty Determination Method | A reference to the methodology used to determine the uncertainty in the estimation of radiation dose. |
| 128512 | Equivalent Dose | Absorbed dose to a tissue or organ multiplied by a quality factor to normalize the dose to the type of radiation that is depositing the dose. |
| 128513 | Absorbed Dose | Energy from ionizing radiation absorbed per unit mass. |
| 128522 | Normalization Factor | A factor that is used to make an adjustment to a calculation to normalize the data set. |
| 128523 | Offset Factor | A factor that is used to make an adjustment to a calculation to translate or move the data set in a defined manner. |
| 128526 | Tissue Fraction | The amount of a specific tissue content, either mass or volume, in a material. |

| Code Value | Code Meaning | Definition |
|------------|-----------------------------------|---|
| 128527 | Distance Correction | A correction factor for a measurement of distance or location. |
| 128528 | Conversion Factor | A numerical ratio to express a measurement from one unit to another unit. |
| 128531 | Maximum Absorbed Radiation Dose | The largest absorbed radiation dose amount estimated. |
| 128532 | Minimum Absorbed Radiation Dose | The smallest absorbed radiation dose value estimated. |
| 128533 | Mean Absorbed Radiation Dose | The average value of the absorbed radiation dose estimated. |
| 128534 | Mode Absorbed Radiation Dose | The absorbed radiation dose value estimated that occurs most frequently. |
| 128535 | Maximum Equivalent Radiation Dose | The largest equivalent radiation dose value estimated. |
| 128536 | Minimum Equivalent Radiation Dose | The smallest equivalent radiation dose value estimated. |
| 128537 | Mean Equivalent Radiation Dose | The average value of the equivalent radiation dose estimated. |
| 128538 | Mode Equivalent Radiation Dose | The equivalent radiation dose value estimated that occurs most frequently. |
| 128539 | Median Absorbed Radiation Dose | The central value of the absorbed radiation dose estimated. |
| 128540 | Median Equivalent Radiation Dose | The central value of the equivalent radiation dose estimated. |
| 128551 | Is Repeated Acquisition | This acquisition of data (e.g., for constructing an image) is a repeat of an earlier acquisition that was for some reason unsatisfactory. |
| 128552 | Reason for Repeating Acquisition | The reason that data (e.g., for constructing an image) was acquired again. |
| 128553 | Patient motion | The acquired data is unsatisfactory because the patient moved. |
| 128554 | Suboptimal contrast timing | The acquired data is unsatisfactory because the contrast timing was not adequate. |

E French Language Meanings of Selected Codes Used in the DCMR (Normative)

This Annex defines the French language code meanings for selected codes used in the DCMR.

Table E-1. French Language Meanings of Selected Codes

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|--|---|
| BI | 3.0 | II.AC.a | 0 - Need additional imaging evaluation | 0. L'évaluation nécessite des compléments d'imagerie |
| BI | 3.0 | II.AC.b.1 | 1 - Negative | 1. Négatif |
| SRT | | F-01781 | 1 o'clock position | Situé à 1 heure |
| SRT | | F-0178A | 10 o'clock position | Situé à 10 heures |
| SRT | | F-0178B | 11 o'clock position | Situé à 11 heures |
| SRT | | F-0178C | 12 o'clock position | Situé à 12 heures |
| BI | 3.0 | II.AC.b.2 | 2 - Benign Finding | 2. Constatations bénignes |
| SRT | | F-01782 | 2 o'clock position | Situé à 2 heures |
| BI | 3.0 | II.AC.b.3 | 3 - Probably Benign Finding - short interval follow-up | 3. Anomalie probablement bénigne - proposition d'une surveillance à court terme |
| SRT | | F-01783 | 3 o'clock position | Situé à 3 heures |
| BI | 3.0 | II.AC.b.4 | 4 - Suspicious abnormality, biopsy should be considered | 4. Anomalie suspecte, une biopsie doit être envisagée |
| SRT | | F-01784 | 4 o'clock position | Situé à 4 heures |
| BI | 3.0 | II.AC.b.5 | 5 - Highly suggestive of malignancy, take appropriate action | 5. Haute probabilité de malignité, une action appropriée doit être entreprise |
| SRT | | F-01785 | 5 o'clock position | Situé à 5 heures |
| SRT | | F-01786 | 6 o'clock position | Situé à 6 heures |
| SRT | | F-01787 | 7 o'clock position | Situé à 7 heures |
| SRT | | F-01788 | 8 o'clock position | Situé à 8 heures |
| SRT | | F-01789 | 9 o'clock position | Situé à 9 heures |
| DCM | | 112063 | Abnormal calcifications | Calcifications anormales |
| DCM | | 112028 | Abnormal Distribution of Anatomic Structure | Distribution anormale des structures anatomiques |
| DCM | | 112004 | Abnormal interstitial pattern | Opacité interstitielle |
| DCM | | 112061 | Abnormal lines (1D) | Lignes anormales (1D) |
| DCM | | 112062 | Abnormal lucency | Clarté anormale |
| DCM | | 112033 | Abnormal opacity | Opacité anormale |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|--|---|
| DCM | | 112064 | Abnormal texture | Texture anormale Note If the term refers to a localized lesion use "Texture anormale" but if the term refers to the entire lung it is more appropriate to use "Trame anormale". |
| SRT | | M-41610 | Abscess | Abcès |
| DCM | | 112146 | Acinar | Acinaire |
| DCM | | 112036 | ACR Position Statement | Position de l'ACR |
| SRT | | T-15420 | Acromioclavicular Joint | Articulation acromioclaviculaire |
| SRT | | T-12281 | Acromion process of scapula | Acromion |
| SRT | | R-424BE | Acute onset | Aigu |
| DCM | | 121078 | Addendum | Addendum |
| DCM | | 111135 | Additional projections | Incidence complémentaire |
| SRT | | M-82003 | Adenoid cystic carcinoma | Carcinome adénoïde kystique (cylindrome) |
| SRT | | M-83240 | Adenolipoma | Adénolipome |
| SRT | | M-81400 | Adenoma | Adénome |
| SRT | | M-89830 | Adenomyoepithelioma | Adénomyoépithéliome |
| SRT | | M-74200 | Adenosis | Adénose |
| SRT | | G-A127 | Afferent | Afférent |
| DCM | | 112055 | Agatston scoring method | Score de calcification coronaire par la méthode d'Agatston |
| DCM | | 112143 | Air | Air |
| DCM | | 112070 | Air bronchiogram | Bronchiogramme aérique |
| DCM | | 112071 | Air bronchogram | Bronchogramme aérique |
| DCM | | 112072 | Air crescent | Croissant aérique |
| DCM | | 112147 | Air space | Espace aérique |
| DCM | | 112104 | Air-fluid level | Niveau hydro-aérique |
| SRT | | F-20240 | Air-trapping | Piégeage |
| SRT | | T-20001 | Airway structure | Structure des voies aériennes |
| DCM | | 111001 | Algorithm Name | Nom de l'algorithme |
| DCM | | 111002 | Algorithm Parameters | Paramètres de l'algorithme |
| DCM | | 111003 | Algorithm Version | Version de l'algorithme |
| DCM | | 111242 | All algorithms succeeded; with findings | Tous les algorithmes ont réussi; avec élément découvert |
| DCM | | 111241 | All algorithms succeeded; without findings | Tous les algorithmes ont réussi; sans élément découvert |
| SRT | | F-01711 | Almost entirely fat | Presque entièrement gras |
| SRT | | G-A174 | Along edge | Au bord |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|--|
| SRT | | F-0176C | Amorphous calcification | Calcification amorphe |
| SRT | | M-55160 | Amyloid (tumor) | (Tumeur) amyloïde |
| DCM | | 111004 | Analysis Performed | Analyse effectuée |
| DCM | | 112050 | Anatomic Identifier | Identificateur anatomique |
| SRT | | F-10326 | anatomical | Anatomique |
| SRT | | M-88610 | Angiolipoma | Angiolipome |
| SRT | | M-76100 | Angiomatosis | Angiomatose |
| SRT | | M-91203 | Angiosarcoma | Angiosarcome (hémangiosarcome) |
| SRT | | T-11307 | Angle of rib | Angle de la côte |
| SRT | | R-404CC | Anterior | Antérieur |
| DCM | | 112088 | Anterior junction line | Ligne médiastinale antérieure |
| SRT | | T-28630 | Anterior segment of left upper lobe | Segment antérieur du lobe supérieur gauche |
| SRT | | T-28230 | Anterior segment of right upper lobe | Segment antérieur du lobe supérieur droit |
| SRT | | G-A180 | Anterolateral | Antéro-latéral |
| DCM | | 111141 | Any decision to biopsy should be based on clinical assessment | Une éventuelle décision de biopsie doit être basée sur l'évaluation clinique |
| SRT | | T-42000 | Aorta | Aorte |
| SRT | | T-42300 | Aortic arch | Crosse de l'aorte |
| SRT | | T-42310 | Aortic isthmus | Isthme aortique |
| DCM | | 112102 | Aortic knob | Bouton aortique |
| SRT | | T-35400 | Aortic Valve | Valve aortique |
| SRT | | G-A122 | Apical | Apical |
| SRT | | G-A122 | Apical | Apical |
| SRT | | M-84013 | Apocrine adenocarcinoma | Carcinome apocrine |
| SRT | | M-73310 | Apocrine Metaplasia | Métaplasie apocrine |
| DCM | | 112103 | Arch of the Azygos vein | Crosse de la veine Azygos |
| SRT | | T-11511 | Arch of vertebra | Arc vertébral |
| DCM | | 112079 | Architectural distortion | Modification des rapports anatomiques |
| SRT | | F-01795 | Architectural distortion of breast | Distorsion architecturale du sein |
| SRT | | G-A166 | Area | Surface |
| SRT | | G-A16A | Area of defined region | Surface de la région définie |
| DCM | | 121056 | Area Outline | Tracé de la surface |
| DCM | | 111215 | Artifact(s) other than grid or detector artifact | Artéfacts autres qu'artéfacts de grille ou du détecteur |
| SRT | | T-42100 | Ascending aorta | Aorte thoracique ascendante |
| DCM | | 111005 | Assessment Category | Catégorie d'évaluation |
| DCM | | 112003 | Associated Chest Component | Structure anatomique du thorax |
| SRT | | F-01793 | Asymmetric breast tissue | Tissu mammaire asymétrique |
| SRT | | P5-B3412 | Asymmetric breast tissue analysis | Analyse de l'asymétrie du tissu mammaire |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|--|
| SRT | | F-8A063 | Asynchronous involution of breast | Involution asynchrone du sein |
| SRT | | D4-31220 | Atrial Septal Defect | Communication inter atriale |
| SRT | | T-32100 | Atrium | Atrium ou Oreillette |
| SRT | | J-005E8 | Attending (syn. Consultant) | Consultant |
| DCM | | 112031 | Attenuation Coefficient | Coefficient d'atténuation |
| SRT | | M-72175 | Atypical intraductal hyperplasia | Hyperplasie intracanaulaire atypique |
| SRT | | M-72105 | Atypical lobular hyperplasia | Hyperplasie lobulaire atypique |
| SRT | | G-A147 | Axial | Axial |
| SRT | | F-01794 | Axilla position | Situation axillaire |
| BI | 3.0 | I.E.6 | Axillary adenopathy | Adénopathie axillaire |
| SRT | | T-47100 | Axillary Artery | Artère axillaire |
| SRT | | T-18774 | Axillary Fascia | Fascia axillaire |
| DCM | | 111301 | Axillary nodal metastases | Métastases ganglionnaires axillaire |
| DCM | | 111253 | Axillary node hyperplasia | Hyperplasie dans ganglion axillaire |
| DCM | | 111252 | Axillary node with calcifications | Ganglion axillaire avec calcifications |
| DCM | | 111300 | Axillary node with lymphoma | Lymphome dans ganglion axillaire |
| SRT | | R-102D1 | Axillary Tail | Prolongement axillaire |
| SRT | | F-0178E | Axillary tail position | Situé dans le prolongement axillaire du sein |
| SRT | | T-49110 | Axillary vein | Veine axillaire |
| DCM | | 112090 | Azygoesophageal recess interface | Ligne para-azygo-oesophagienne |
| SRT | | T-48340 | Azygos vein | Grande veine Azygos |
| SRT | | G-A123 | Basal | Basal |
| DCM | | 111307 | Basal cell carcinoma of the nipple | Carcinome basocellulaire du mamelon |
| DCM | | 121079 | Baseline | Référence |
| DCM | | 112016 | Baseline Category | Catégorie à T0 |
| DCM | | 112154 | Bat's wing distribution | Aspect en aile de papillon Note In France, the two concepts as described in Annex D 112154 and 112155 are not distinguished. For this reason both "Bat's wing" and "Butterfly distribution" have a code meaning of "Aspect en aile de papillon". |
| SRT | | A-32475 | BB shot (Lead Pellet) | Marque de plomb (Grain de plomb) |
| DCM | | 112066 | Beaded septum sign | Septa perlés |
| DCM | | 111256 | Benign Calcifications | Calcifications bénignes |
| DCM | | 111255 | Benign cyst with blood | Kyste bénin hémorragique |
| SRT | | D7-F0810 | Benign neoplasm of nipple of female breast (Nipple adenoma) | Adénomatose (papillomatose) érosive du mamelon |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|---|
| DCM | | 121080 | Best illustration of finding | Meilleure illustration des résultats |
| DCM | | 112049 | Best Overall Response | La meilleure réponse |
| SRT | | G-A102 | Bilateral | Bilatéral |
| DCM | | 111143 | Biopsy should be considered | Une biopsie doit être envisagée |
| DCM | | 111148 | Biopsy should be strongly considered | Une biopsie doit être absolument envisagée |
| DCM | | 111303 | Blood vessel (vascular) invasion | Embole vasculaire |
| SRT | | T-11220 | Body of sternum | Corps du sternum |
| DCM | | 112007 | Border definition | Définition des bords |
| DCM | | 112015 | Border shape | Forme des bords |
| SRT | | T-04080 | Both breasts | Les deux seins |
| SRT | | T-47160 | Brachial artery | Artère brachiale |
| SRT | | T-A9090 | Brachial plexus | Plexus brachial |
| SRT | | T-46010 | Brachiocephalic trunk | Tronc artériel brachio-céphalique |
| SRT | | T-48620 | Brachiocephalic vein | Tronc veineux brachio-céphalique |
| SRT | | T-04000 | Breast | Sein |
| SRT | | F-01710 | Breast composition | Composition du sein (des seins) |
| SRT | | P5-B3414 | Breast composition analysis | Analyse de la composition du sein (des seins) |
| DCM | | 111100 | Breast geometry | Morphologie du sein (des seins) |
| SRT | | D7-90428 | Breast lobular hyperplasia | Hyperplasie lobulaire mammaire |
| DCM | | 111007 | Breast Outline including Pectoral Muscle Tissue | Limites du sein incluant le muscle pectoral |
| SRT | | T-04000 | Breast | Sein |
| SRT | | R-40939 | Bronchial | Bronchique |
| SRT | | T-46310 | Bronchial artery | Artère bronchique |
| DCM | | 112052 | Bronchovascular | Broncho-vasculaire |
| SRT | | T-26000 | Bronchus | Bronche |
| SRT | | A-32110 | Bullet | Balle |
| DCM | | 112155 | Butterfly distribution | Aspect en ailes de papillon |
| DCM | | 111017 | CAD Processing and Findings Summary | Résumé du traitement et des résultats du système de DAO |
| SRT | | F-01775 | Calcification Cluster | Foyer de microcalcifications |
| DCM | | 112030 | Calcification Descriptor | Descripteur des calcifications |
| DCM | | 111008 | Calcification Distribution | Distribution des calcifications |
| DCM | | 112018 | Calcification extent as percent of surface | % de surface calcifiée |
| DCM | | 112019 | Calcification extent as percent of volume | % de volume calcifié |
| DCM | | 111009 | Calcification Type | Type de calcification |
| SRT | | F-01769 | Calcified skin of breast | Calcification cutanée |
| SRT | | F-0176A | Calcified suture material | Fils de suture calcifiés |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|--|--|
| DCM | | 112145 | Calcium | Calcium |
| DCM | | 112058 | Calcium score | Score de calcification |
| DCM | | 112034 | Calculation Description | Description du calcul |
| SRT | | G-A171 | Capsular | Capsulaire |
| DCM | | 111304 | Carcinoma in children | Carcinome de l'enfant |
| DCM | | 111305 | Carcinoma in ectopic breast | Carcinome sur glande mammaire ectopique |
| DCM | | 111310 | Carcinoma in pregnancy and lactation | Carcinome au cours de la grossesse et de la lactation |
| SRT | | D7-F0902 | Carcinoma in situ of male breast | Carcinome de l'homme |
| DCM | | 111306 | Carcinoma with endocrine differentiation | Carcinome avec différenciation endocrine |
| SRT | | M-85733 | Carcinoma with metaplasia | Carcinome métaplasique |
| SRT | | M-89803 | Carcinosarcoma | Carcinosarcome |
| SRT | | A-040CB | Cardiac pacemaker lead | Electrode de pace-maker cardiaque |
| SRT | | T-25201 | Carina | Carène |
| DCM | | 112086 | Carina angle | Angle carinaire |
| SRT | | T-B4000 | Carotid Body | Corpuscule carotidien |
| DCM | | 111309 | Cartilaginous and osseous change | Métaplasie cartilagineuse ou osseuse |
| SRT | | A-26800 | Catheter | Cathéter |
| SRT | | G-A108 | Caudal | Caudal |
| SRT | | G-A108 | Caudal | Caudal |
| SRT | | R-10244 | caudo-cranial (from below) | Face caudo-craniale |
| DCM | | 112017 | Cavity extent as percent of volume | Taille de la cavité en % du volume |
| DCM | | 111203 | CC Nipple not centered on image | Cranio-caudal: mamelon non centré sur l'image |
| DCM | | 111202 | CC Not all medial tissue visualized | Cranio-caudal: le tissu interne n'est pas totalement visible |
| DCM | | 111204 | CC Posterior nipple line does not measure within 1 cm of MLO | Cranio-caudal: longueur de la ligne rétroaréolaire sur la face plus courte de plus d'un centimètre que sur l'oblique |
| DCM | | 111010 | Center | Centre |
| UCUM | | cm | centimeter | Centimètre |
| SRT | | G-A110 | Central | Central |
| SRT | | G-A110 | Central | Central |
| DCM | | 112174 | Central line | Cathéter central |
| SRT | | F-0178F | Central portion of breast position | Situé dans la partie centrale du sein |
| DCM | | 112156 | Centrilobular | Centro-lobulaire |
| DCM | | 112087 | Centrilobular structures | Structures centro-lobulaires |
| SRT | | G-A107 | Cephalic | Céphalique |
| DCM | | 111011 | Certainty of Feature | Certitude concernant la caractéristique |
| DCM | | 111012 | Certainty of Finding | Certitude concernant le résultat |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|-------------------------------------|---|
| DCM | | 111013 | Certainty of Impression | Certitude concernant l'impression |
| SRT | | A-12210 | Cervical collar | Minerve |
| DCM | | 112000 | Chest CAD Report | Compte-rendu de la DAO du thorax |
| DCM | | 112173 | Chest tube | Drain thoracique |
| SRT | | T-D3050 | Chest wall | Paroi thoracique |
| SRT | | M-92200 | Chondroma | Chondrome |
| SRT | | M-92203 | Chondrosarcoma | Chondrosarcome |
| SRT | | T-35020 | Chordae tendineae cordis | Cordage |
| SRT | | G-A270 | Chronic | Chronique |
| SRT | | M-02560 | Circumference | Circonférence |
| DCM | | 112142 | Circumscribed | Circonscriit |
| SRT | | F-01741 | Circumscribed lesion | Lésion circonscrite (bien définie ou à contour net) |
| SRT | | T-12310 | Clavicle | Clavicule |
| SRT | | T-11219 | Clavicular notch of sternum | Incisure claviculaire du sternum |
| SRT | | R-102D2 | Cleavage | Sillon inter-mammaire |
| SRT | | A-12062 | Clip | Clip |
| DCM | | 111014 | Clockface or region | Quadrant ou région |
| DCM | | 112157 | Coalescent | Confluent |
| SRT | | F-01761 | Coarse (popcorn-like) calcification | Grossière (en popcorn ou coralliforme) |
| DCM | | 112178 | Coin | Pièce de monnaie |
| SRT | | F-20172 | Coin lesion | Lésion nodulaire |
| DCM | | 111195 | Collimation too close to breast | Collimation trop proche du sein |
| SRT | | A-0110F | Collimator | Collimateur |
| SRT | | M-85012 | Comedocarcinoma (intraductal) | Carcinome intracanalair de type comédo |
| SRT | | T-45100 | Common carotid artery | Artère carotide commune |
| DCM | | 111015 | Composite Feature | Caractéristique composite |
| DCM | | 112023 | Composite Feature Modifier | Modificateur lié à une anomalie à caractéristiques composites |
| DCM | | 111016 | Composite type | Type composite |
| DCM | | 110004 | Computer Aided Detection | Système de Détection Assistée par Ordinateur |
| DCM | | 110003 | Computer Aided Diagnosis | Système de Diagnostic Assisté par Ordinateur |
| DCM | | 121077 | Conclusion | Conclusion |
| DCM | | 121076 | Conclusions | Conclusions |
| DCM | | 111018 | Content Date | Date du contenu |
| DCM | | 111019 | Content Time | Heure du contenu |
| SRT | | C-B0300 | Contrast agent NOS | Produit de contraste |
| SRT | | T-12282 | Coracoid process of scapula | Apophyse coracoïde |
| DCM | | 112105 | Corona radiata | Couronne radiaire |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|--------------------------------------|---|
| SRT | | G-A138 | Coronal | Coronal |
| SRT | | T-11240 | Costal Cartilage | Cartilage costal |
| SRT | | T-11308 | Costal groove | Sillon de la côte |
| SRT | | T-46180 | Costocervical trunk | Tronc cervico-thoracique |
| SRT | | G-A108 | Cranial-caudal | Tête-pieds |
| SRT | | G-A108 | Cranio-caudal | Cranio-caudal |
| SRT | | R-10242 | cranio-caudal | Face |
| SRT | | Y-X1770 | cranio-caudal exaggerated laterally | Face exagérée externe |
| SRT | | Y-X1771 | cranio-caudal exaggerated medially | Face exagérée interne |
| LN | | 18747-6 | CT Report | Compte rendu TDM |
| UCUM | | cm3 | Cubic centimeter | Centimètre cube |
| UCUM | | dm3 | Cubic decimeter | Décimètre cube |
| UCUM | | um3 | Cubic micrometer | Micromètre cube |
| UCUM | | mm3 | Cubic millimeter | Millimètre cube |
| SRT | | F-10410 | curled-up | En chien de fusil |
| LN | | 55111-9 | Current Procedure Descriptions | Description de la procédure en cours |
| DCM | | 112048 | Current Response | Réponse actuelle |
| SRT | | D7-90035 | Cyst of breast | Kyste du sein |
| DCM | | 111147 | Cytologic analysis | Analyse cytologique |
| DCM | | 111193 | Date sticker is missing | L'étiquette de date est absente |
| UCUM | | d | Day | Jour |
| SRT | | F-01727 | Decrease in number of calcifications | Diminution du nombre de calcifications |
| SRT | | M-02530 | Decrease in size | Diminution de taille |
| SRT | | G-A140 | Deep | Profond |
| SRT | | T-13660 | Deltoid muscle | Muscle deltoïde |
| DCM | | 112118 | Density | Densité Note Typically used with chest CT |
| SRT | | F-01796 | Mammography breast density | Opacité mammaire à la mammographie |
| DCM | | 112119 | Dependent opacity | Opacité déclive |
| SRT | | G-D785 | Depth | Profondeur |
| DCM | | 111020 | Depth | Profondeur |
| DCM | | 121401 | Derivation | Méthode de calcul |
| SRT | | T-D0765 | Descending aorta | Aorte thoracique descendante |
| DCM | | 111021 | Description of Change | Description des modifications |
| DCM | | 111022 | Detection Performed | Détection effectuée |
| DCM | | 111214 | Detector artifact(s) | Artéfacts du détecteur |
| DCM | | 111259 | Diabetic fibrous mastopathy | Mastopathie diabétique |
| SRT | | M-02550 | Diameter | Diamètre |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|--|---|
| SRT | | G-A198 | Diameter of circumscribed circle | Diamètre du cercle circonscrit |
| SRT | | T-D3400 | Diaphragm | Diaphragme |
| DCM | | 110011 | Dictation | Dictée |
| DCM | | 112166 | Difference in border definition | Modification de la netteté des bords |
| DCM | | 112165 | Difference in border shape | Modification de la forme des bords |
| DCM | | 112167 | Difference in distribution | Modification de la distribution |
| SRT | | F-017B3 | Difference in location | Différence de localisation |
| SRT | | F-05179 | Difference in location | Différence de localisation |
| SRT | | F-017B7 | Difference in margin | Différence de contours |
| SRT | | F-017B5 | Difference in number of calcifications | Différence du nombre de calcifications |
| SRT | | F-017B2 | Difference in opacity | Différence d'opacité |
| SRT | | F-017B6 | Difference in shape | Différence de forme |
| DCM | | 112168 | Difference in site involvement | Modification du siège des lésions |
| SRT | | F-017B1 | Difference in size | Différence de taille |
| SRT | | F-05173 | Difference in size | Différence de taille |
| SRT | | F-017B4 | Difference in spatial proximity | Différence de proximité dans l'espace |
| SRT | | F-017B8 | Difference in symmetry | Différence de symétrie |
| DCM | | 112170 | Difference in Texture | Modification de texture |
| DCM | | 112169 | Difference in Type of Content | Modification du contenu |
| DCM | | 111023 | Differential Diagnosis/Impression | Diagnostic différentiel/Impression |
| SRT | | G-A321 | Diffuse | Diffus |
| SRT | | F-01770 | Diffuse calcification distribution | Calcifications diffuses(disséminées) |
| SRT | | M-020FA | Discoïd | Discoïde |
| SRT | | G-A324 | Disseminated | Disséminé |
| SRT | | G-A119 | Distal | Distal |
| DCM | | 121206 | Distance | Distance |
| DCM | | 112138 | Distinctly defined | Distincts les uns des autres |
| DCM | | 112006 | Distribution Descriptor | Descripteur de la distribution |
| DCM | | 113011 | Document Title Modifier | Modificateur du titre du document |
| SRT | | R-404CE | Dorsal | Dorsal |
| SRT | | T-12287 | Dorsal aspect of scapula | Corps de l'omoplate |
| SRT | | T-461A0 | Dorsal scapular artery | Artère scapulaire postérieure |
| DCM | | 111258 | Ductal adenoma | Adénome ductal |
| SRT | | M-72170 | Ductal hyperplasia, Usual | Hyperplasie canalaire |
| SRT | | P5-40060 | mammary ductogram | Galactographie |
| SRT | | F-01762 | Dystrophic calcification | Dystrophique |
| SRT | | D4-48014 | Ectopic (accessory) breast tissue | Tissu mammaire ectopique (glande mammaire accessoire) |
| SRT | | M-36300 | Edema | Oedème |
| SRT | | G-A174 | Edge | Bord |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|--|
| SRT | | G-A128 | Efferent | Efférent |
| SRT | | F-01763 | Eggshell calcification | En coquille d'oeuf |
| DCM | | 111217 | Electrical failure | Défaillance électrique |
| DCM | | 112134 | Elliptic | Elliptique |
| SRT | | A-25350 | Endotracheal tube | Tube endotrachéal |
| SRT | | R-40750 | Enlarged | Augmenté de taille |
| SRT | | M-33415 | Epidermal inclusion cyst | Kyste épidermique |
| SRT | | F-01752 | Equal density (isodense) lesion | Lésion de densité identique (isodense) |
| NCIt | | C86043 | erect | Debout |
| SRT | | T-14020 | Erector spinae muscle | Muscles érecteurs du rachis |
| SRT | | T-4630D | Esophageal artery | Artère oesophagienne |
| SRT | | T-D3412 | Esophageal Hiatus | Hiatus oesophagien |
| SRT | | T-56000 | Esophagus | Oesophage |
| SRT | | R-10260 | Estimated | Estimé |
| SRT | | R-102CF | exaggerated cranio-caudal | Face exagérée |
| SRT | | R-40941 | External | Externe |
| SRT | | T-1416B | External intercostal muscle | Muscle intercostal externe |
| SRT | | M-88211 | Extra abdominal desmoid | Tumeur desmoïde extraabdominale |
| SRT | | G-A151 | Extra-articular | Extra-articulaire |
| SRT | | F-01714 | Extremely dense | Très dense |
| DCM | | 112131 | Extremely small | Extrêmement petit |
| DCM | | 111224 | Failed | Echec |
| DCM | | 111024 | Failed Analyses | Échec des analyses |
| DCM | | 111025 | Failed Detections | Échec des détections |
| SRT | | T-D0634 | Fascial layer | Fascia |
| SRT | | T-D008A | Fat | Graisse |
| SRT | | F-01754 | Fat containing (radiolucent) lesion | Lésion contenant de la graisse (radiotransparent) |
| SRT | | D7-90434 | Fat necrosis of breast | Cytostéatonecrose mammaire |
| DCM | | 111159 | Feature detected on images from multiple modalities | Caractéristique détectée sur les images provenant de plusieurs modalités |
| DCM | | 111158 | Feature detected on multiple images | Caractéristique détectée sur plusieurs images |
| DCM | | 111157 | Feature detected on only one of the images | Caractéristique détectée sur une seule des images |
| DCM | | 111156 | Feature detected on the only image | Caractéristique détectée sur la seule image |
| SRT | | A-26430 | Feeding tube | Sonde d'alimentation |
| DCM | | F | female | Femme |
| DCM | | 111264 | Fibroadenolipoma | Adénofibrolipome |
| SRT | | M-90100 | Fibroadenoma | Fibroadénome |
| DCM | | 111263 | Fibroadenomatoid hyperplasia | Hyperplasie fibro-adénomatoïde |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|--|
| DCM | | 112163 | Fibrocalcific | Fibrocalcique |
| SRT | | D7-90310 | Fibrocystic disease of breast | Dysplasie fibrokystique du sein |
| SRT | | M-78800 | Fibromatosis | Fibomatose |
| DCM | | 112148 | Fibronodular | Fibro-nodulaire |
| SRT | | M-88103 | Fibrosarcoma | Fibrosarcome |
| DCM | | 112171 | Fiducial mark | Point de repère |
| DCM | | 110010 | Film | Film |
| DCM | | 121071 | Finding | Résultat |
| SRT | | F-01722 | Finding partially removed | Exérèse partielle de l'élément |
| DCM | | 121070 | Findings | Résultats |
| SRT | | F-0176D | Fine, linear (casting) calcification | Calcification fine linéaire (vermiculaire) |
| SRT | | F-0176E | Fine, linear, branching (casting) calcification | Calcification fine linéaire, arborisée (ramifiée) |
| SRT | | T-D051D | Fissure of lung | Scissure |
| DCM | | 111191 | Flash doesn't include cassette/screen/detector identification | Le marquage n'indique pas l'identifiant de cassette/écran/détecteur |
| DCM | | 111188 | Flash doesn't include date of examination | Le marquage n'indique pas la date de l'examen |
| DCM | | 111189 | Flash doesn't include facility name and location | Le marquage n'indique ni le nom de l'établissement ni son adresse |
| DCM | | 111192 | Flash doesn't include mammography unit identification | Le marquage n'indique pas l'identifiant du mammographe |
| DCM | | 111187 | Flash doesn't include patient name and additional patient id | Le marquage n'indique ni le nom du patient ni son identifiant. |
| DCM | | 111186 | Flash is illegible, does not fit, or is lopsided | Le marquage est illisible, mal positionné ou de travers |
| DCM | | 111185 | Flash is not near edge of film | Le marquage n'est pas au bord du film |
| DCM | | 112107 | Fleischner's line(s) | Ligne(s) de Fleischner |
| DCM | | 112164 | Flocculent | Floconneux |
| DCM | | 112149 | Fluffy | Flou Note The word-to-word translation of "Fluffy" is "Duveteux", but this term is never used. For tissues, the translation must be "Floconneux" but this term is only used for calcifications (Flocculent = Floconneux) in CID 6132 "Chest Calcification Descriptor". We retained "Flou" (in English, "Fuzzy") as the most appropriate meaning. |
| SRT | | G-A351 | Focal | Localisé |
| SRT | | F-01792 | Focal asymmetric breast tissue | Asymétrie focale du tissu mammaire |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|--|--|
| SRT | | P5-B3410 | Focal asymmetric density analysis | Analyse de l'asymétrie de densité focale |
| SRT | | M-78266 | Focal fibrosis | Fibrose focale |
| DCM | | 111142 | Follow-up at short interval (1-11 months) | Surveillance à court terme (1-11 mois) |
| DCM | | 113005 | For Conference | Pour une conférence |
| DCM | | 113007 | For Patient | Pour le patient |
| DCM | | 113008 | For Peer Review | Pour relecture par un pair |
| DCM | | 113002 | For Referring Provider | Pour le référent |
| DCM | | 113009 | For Research | Pour la recherche |
| DCM | | 113003 | For Surgery | Pour la chirurgie |
| DCM | | 113004 | For Teaching | Pour l'enseignement |
| DCM | | 113006 | For Therapy | Pour la thérapeutique |
| SRT | | M-44140 | Foreign body (reaction) | Réaction à corps étranger |
| SRT | | M-30400 | Foreign material (iodized oil, mercury,talc) | Corps étranger (lipiodol, mercure,talc) |
| SRT | | F-10380 | frog | Position de la grenouille |
| SRT | | G-A138 | Frontal | Frontal |
| SRT | | D7-90364 | Galactoceles | Galactocèle |
| SRT | | G-A366 | Generalized | Généralisé |
| SRT | | M-90160 | Giant fibroadenoma | Adénofibrome géant |
| SRT | | T-1228A | Glenoid cavity of scapula | Cavité glénoïde |
| SRT | | M-83153 | Glycogen-rich carcinoma | Carcinome riche en glycogène |
| SRT | | M-95800 | Granular cell tumor | Tumeur à cellules granuleuses |
| DCM | | 112128 | Granular pattern | Aspect micronodulaire |
| DCM | | 111208 | Grid artifact(s) | Artéfact(s) de grille |
| DCM | | 112120 | Ground glass opacity | Opacité en verre dépoli |
| SRT | | F-01772 | Grouped calcification distribution | Calcification groupées (ou en foyer) |
| SRT | | G-A169 | Gutter | Gouttière |
| SRT | | D7-90420 | Gynecomastia | Gynécomastie |
| DCM | | 112073 | Halo sign | Signe du halo |
| SRT | | M-75500 | Hamartoma | Hamartome |
| SRT | | T-11301 | Head of rib | Tête de le côte |
| SRT | | T-32000 | Heart | Coeur |
| SRT | | A-04110 | Heart valve prosthesis | Prothèse valvulaire |
| SRT | | M-91200 | Hemangioma | Hémangiome |
| SRT | | D3-F0620 | Hemangioma of subcutaneous tissue | Hémangiome des tissus sous-cutané |
| SRT | | M-91220 | Hemangioma - venous | Hémangiome veineux |
| SRT | | M-91501 | Hemangiopericytoma | Hémangiopéricytome |
| SRT | | M-35060 | Hematoma | Hématome |
| SRT | | F-0176F | Heterogeneous calcification | Calcification punctiforme irrégulière (polymorphe, hétérogène) |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|---|
| SRT | | F-01713 | Heterogeneously dense | Dense et hétérogène |
| DCM | | 112095 | Hiatus | Hiatus |
| SRT | | F-01751 | High density lesion | Lésion de forte densité |
| DCM | | 111149 | Highly suggestive of malignancy - take appropriate action | Haute probabilité de malignité - une action appropriée doit être entreprise |
| SRT | | G-A170 | Hilar | Hilaire |
| SRT | | T-28080 | Hilum of lung | Hile pulmonaire |
| SRT | | G-A170 | Hilus | Hile |
| DCM | | 111145 | Histology using core biopsy | Histologie par biopsie à l'aiguille |
| LN | | 11329-0 | History | Antécédents |
| SRT | | M-96503 | Hodgkin's disease (lymphoma) | Maladie de Hodgkin |
| DCM | | 112160 | Homogeneous (uniform opacity) | Homogène (opacité uniforme) |
| DCM | | 112106 | Honeycomb pattern | Aspect en rayon de miel |
| SRT | | G-A142 | Horizontal | Horizontal |
| SRT | | G-A142 | Horizontal | Horizontal |
| DCM | | 111026 | Horizontal Pixel Spacing | Espacement horizontal des pixels |
| UCUM | | h | hour | Heure |
| SRT | | T-12410 | Humerus | Humérus |
| DCM | | 112159 | Hyper-acute | Suraigu |
| SRT | | M-72000 | Hyperplasia, usual | Hyperplasie simple |
| SRT | | A-16016 | ID Plate | Zone d'identification |
| SRT | | T-14030 | Iliocostalis muscle | Muscle ilio-costal |
| DCM | | 111027 | Image Laterality | Latéralité de l'image |
| DCM | | 111028 | Image Library | Bibliothèque d'images |
| DCM | | 110001 | Image Processing | Traitement d'image |
| DCM | | 111101 | Image Quality | Qualité image |
| SRT | | P5-B3408 | Image quality analysis | Analyse de la qualité d'image |
| DCM | | 111029 | Image Quality Rating | Score de qualité image |
| DCM | | 111030 | Image Region | Région de l'image |
| DCM | | 111031 | Image View | Incidence |
| DCM | | 111032 | Image View Modifier | Modificateur de l'incidence |
| SRT | | A-04010 | Implant | Prothèse |
| SRT | | R-102D5 | Implant Displaced | Prothèse déplacée |
| SRT | | F-0172B | Implant revised since previous mammogram | Prothèse révisée depuis la mammographie précédente |
| DCM | | 121073 | Impression | Impression |
| DCM | | 111033 | Impression Description | Description de l'impression |
| LN | | 19005-8 | Impressions | Impressions |
| DCM | | 111196 | Inadequate compression | Compression inadéquate |
| DCM | | 111219 | Inappropriate image processing | Défaillance du processus de traitement d'image |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|--|--|
| SRT | | F-01726 | Increase in number of calcifications | Augmentation du nombre de calcifications |
| SRT | | M-02520 | Increase in size | Augmentation de taille |
| LN | | 18785-6 | Indications for Procedure | Indications de la procédure |
| SRT | | F-01744 | Indistinct lesion | Lésion indistincte |
| SRT | | F-01776 | Individual Calcification | Calcification isolée |
| DCM | | 111233 | Individual Impression / Recommendation Analysis | Analyse de l'Impression / recommandation élémentaire |
| DCM | | 111034 | Individual Impression/Recommendation | Impression élémentaire/Recommandation |
| SRT | | D7-90452 | Infarction of breast | Infarctus mammaire |
| SRT | | R-4094A | Inferior | Inférieur |
| SRT | | T-116EF | Inferior articular facet of axis | Facette articulaire inférieure de l'axis |
| SRT | | T-1153F | Inferior articular process of vertebra | Massif articulaire inférieur |
| SRT | | T-46940 | Inferior phrenic artery | Artère phrénique inférieure |
| SRT | | T-48710 | Inferior vena cava | Veine cave inférieure |
| DCM | | 112121 | Infiltrate | Infiltrat |
| SRT | | M-85003 | Infiltrating duct carcinoma | Carcinome canalaire infiltrant |
| SRT | | M-40000 | Inflammation | Infection |
| SRT | | M-85303 | Inflammatory carcinoma | Carcinome inflammatoire |
| SRT | | T-13620 | Infraspinatus muscle | Muscle sous épineux |
| DCM | | 112161 | Inhomogeneous | Hétérogène |
| SRT | | R-40819 | Inner | En dedans |
| SRT | | T-14165 | Innermost intercostal muscles | Muscles intercostaux intimes |
| DCM | | 111240 | Institutionally defined quality control standard | Standards de contrôle de qualité définis par l'institution |
| DCM | | 111206 | Insufficient implant displacement incorrect | Refoulement de la prothèse insuffisant |
| SRT | | T-D305A | Intercostal artery | Artère intercostale |
| DCM | | 112082 | Interface | Interface |
| SRT | | G-A114 | Intermediate | Intermédiaire |
| UMLS | | C1144859 | Intern | Interne |
| SRT | | R-40819 | Internal | Interne |
| SRT | | T-14183 | Internal intercostal muscle | Muscle intercostal interne |
| SRT | | T-48170 | Internal jugular vein | Veine jugulaire interne |
| SRT | | T-46200 | Internal thoracic artery | Artère thoracique interne |
| DCM | | 110005 | Interpretation | Interprétation |
| SRT | | T-1A007 | Interstitial tissue | Interstitium |
| SRT | | T-32410 | Interventricular septum | Septum interventriculaire |
| SRT | | G-A15A | Intra-articular | Intra-articulaire |
| DCM | | 111315 | Intracystic papillary carcinoma | Carcinome papillaire intrakystique |
| SRT | | M-85040 | Intracystic papilloma | Papillome intrakystique |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|---|
| SRT | | M-85072 | Intraductal carcinoma micro-papillary | Carcinome intracanalair de type micropapillaire |
| DCM | | 111341 | Intraductal carcinoma, high grade | Carcinome intracanalair |
| DCM | | 111313 | Intraductal carcinoma, low grade | Carcinome intracanalair de bas grade |
| DCM | | 111312 | Intraductal comedocarcinoma with necrosis | Carcinome intracanalair de type comédo avec nécrose |
| SRT | | M-85030 | Intraductal papilloma | Papillome intragalactophorique |
| DCM | | 112108 | Intralobular lines | Lignes intra-lobulaires |
| SRT | | T-C4351 | Intra-mammary lymph node | Ganglion intramammaire |
| DCM | | 111316 | Invasive and in-situ carcinoma | Carcinome infiltrant et in situ |
| SRT | | M-82013 | Invasive cribriform carcinoma | Carcinome infiltrant cribriforme |
| SRT | | M-85203 | Invasive lobular carcinoma | Carcinome lobulaire infiltrant |
| SRT | | F-10349 | inverse Trendelenburg | Trendelenburg inversé |
| DCM | | 113850 | Irradiation Authorizing | Médecin responsable de l'indication |
| SRT | | G-A402 | Irregular | Irrégulière |
| SRT | | A-1016B | J Wire | Hameçon |
| SRT | | A-26434 | Jejunostomy tube | Tube de jéjunostomie |
| SRT | | A-61000 | Jewelry | Bijoux |
| SRT | | M-90300 | Juvenile fibroadenoma | Fibroadénome juvénile |
| DCM | | 111277 | Juvenile papillomatosis | Papillomatose juvénile |
| DCM | | 112109 | Kerley A line | Ligne A de Kerley |
| DCM | | 112110 | Kerley B line | Ligne B de Kerley |
| DCM | | 112111 | Kerley C lines | Lignes C de Kerley |
| DCM | | 113012 | Key Object Description | Description de l'objet clé |
| DCM | | 112175 | Kidney stent | Stent rénal |
| SRT | | F-10336 | knee-chest | Genu pectoral |
| SRT | | F-10330 | kneeling | À genou [à genou] |
| SRT | | M-82040 | Lactating adenoma | Adénome lactant |
| DCM | | 111279 | Lactational change | Lobule sécrétant |
| SRT | | T-11514 | Lamina of vertebra | Lame de la vertèbre |
| SRT | | G-A405 | Laminated | Lamellaire |
| SRT | | R-404AA | Large | Gros |
| DCM | | 111281 | Large duct papilloma | Papillome solitaire |
| SRT | | F-01764 | Large rod-like calcification | Calcification en bâtonnet |
| SRT | | G-A104 | Lateral | Externe |
| SRT | | F-10318 | lateral decubitus | Décubitus latéral |
| SRT | | G-C171 | Laterality | Latéralité |
| SRT | | R-10228 | latero-medial | Profil externe |
| SRT | | R-10230 | latero-medial oblique | Latéro-médial oblique |
| SRT | | T-14172 | Latissimus dorsi muscle | Muscle grand dorsal |
| SRT | | G-A101 | Left | Gauche |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|--|
| SRT | | T-04030 | Left breast | Sein gauche |
| SRT | | G-A101 | Left lateral | Latéral gauche |
| SRT | | F-10319 | left lateral decubitus | Décubitus latéral gauche |
| SRT | | T-26500 | Left main bronchus | Bronche principale gauche |
| SRT | | M-88900 | Leiomyoma | Léiomyome |
| SRT | | M-88903 | Leiomyosarcoma | Léiomyosarcome |
| SRT | | G-D7FE | Length | Longueur |
| DCM | | 111035 | Lesion Density | Densité de la lésion |
| SRT | | F-01728 | Less defined | Moins bien défini |
| DCM | | 111318 | Leukemic infiltration | Infiltration leucémique |
| SRT | | T-14150 | Levatores costarum muscles | Muscles élévateurs des côtes |
| SRT | | T-42370 | Ligamentum arteriosum | Ligament artériel |
| DCM | | 112083 | Line | Ligne |
| DCM | | 112150 | Linear | Linéaire |
| SRT | | F-01771 | Linear calcification distribution | Distribution linéaire des calcifications |
| SRT | | M-83143 | Lipid-rich (lipid-secreting) carcinoma | Carcinome à cellules lipidiques |
| SRT | | M-88500 | Lipoma | Lipome |
| SRT | | M-88503 | Liposarcoma | Liposarcome |
| SRT | | F-10346 | lithotomy | Lithotomie |
| DCM | | 112158 | Lobar | Lobaire |
| SRT | | T-28770 | Lobe of lung | Lobe pulmonaire |
| SRT | | G-A640 | Lobular | Lobulée |
| SRT | | D7-F0A02 | Lobular carcinoma in situ of breast | Carcinome lobulaire in situ mammaire |
| DCM | | 112135 | Lobulated | Lobulée |
| DCM | | 112013 | Location in Chest | Localisation thoracique |
| SRT | | G-A185 | Long Axis | Grand axe |
| SRT | | T-14040 | Longissimus muscle | Muscle longissimus du thorax |
| SRT | | G-A143 | Longitudinal | Longitudinal |
| SRT | | F-01753 | Low density (not containing fat) lesion | Faible densité (sans contenu graisseux) |
| SRT | | T-04003 | Lower inner quadrant of breast | Quadrant inféro-interne du sein |
| SRT | | T-04003 | Lower inner quadrant of breast | Quadrant inféro-interne du sein |
| SRT | | T-28830 | Lower lobe of lung | Lobe pulmonaire inférieur |
| SRT | | T-04005 | Lower outer quadrant of breast | Quadrant inféro-externe du sein |
| SRT | | T-04005 | Lower outer quadrant of breast | Quadrant inféro-externe du sein |
| SRT | | T-D320A | Lower zone of lung | Zone inférieure du poumon |
| DCM | | 112084 | Lucency | Clarté |
| SRT | | F-01766 | Lucent-centered calcification | Calcification à centre clair |
| SRT | | T-28000 | Lung | Poumon |
| DCM | | 111320 | Lymphatic vessel invasion | Embole lymphatique |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|--|---|
| SRT | | T-C4000 | Lymph node | Ganglion lymphatique |
| SRT | | M-95903 | Lymphoma | Lymphome |
| SRT | | R-102D6 | Magnification | Agrandissement |
| SRT | | R-102D6 | Magnification views | Agrandissements |
| SRT | | G-A193 | Major Axis | Axe principal |
| DCM | | M | male | Homme |
| SRT | | M-88303 | Malignant fibrous histiocyoma | Histiocytofibrome malin |
| DCM | | 111334 | Malignant melanoma of nipple | Mélanome malin du mamelon |
| SRT | | D7-90370 | Mammary duct ectasia | Galactophorite ectasiant mammaire (ectasie canalaire mammaire) |
| SRT | | F-01791 | Mammographic breast mass | Masse du sein à la mammographie |
| DCM | | 111036 | Mammography CAD Report | Compte rendu d'analyse mammographique par système de DAO |
| SRT | | T-11211 | Manubrium of sternum | Manubrium sternal |
| SRT | | G-A177 | Marginal | Marginal |
| DCM | | 111037 | Margins | Contours |
| SRT | | M-03000 | Mass | Masse |
| DCM | | 112057 | Mass scoring method | Appréciation de la charge calcique par la méthode du score de masse |
| DCM | | 112180 | Maximum Attenuation Coefficient | Coefficient d'atténuation maximum |
| DCM | | 112181 | Mean Attenuation Coefficient | Coefficient d'atténuation moyen |
| DCM | | 112051 | Measurement of Response | Quantification de la réponse |
| DCM | | 111216 | Mechanical failure | Défaillance mécanique |
| SRT | | R-404D5 | Medial | Médial |
| SRT | | R-4081A | Median | Médian |
| DCM | | 112182 | Median Attenuation Coefficient | Médiane des coefficients d'atténuation |
| SRT | | T-D3300 | Mediastinum | Médiastin |
| SRT | | R-10224 | medio-lateral | Profil interne |
| SRT | | R-10226 | medio-lateral oblique | Médiolatéral oblique |
| SRT | | R-404A9 | Medium | Moyen |
| SRT | | M-85103 | Medullary carcinoma | Carcinome médullaire |
| DCM | | 111333 | Metastasis to an intramammary lymph node | Ganglion intramammaire métastatique |
| DCM | | 111323 | Metastatic cancer to the breast | Cancer métastatique au sein |
| DCM | | 111324 | Metastatic cancer to the breast from the colon | Métastase intramammaire d'un cancer colique |
| DCM | | 111325 | Metastatic cancer to the breast from the lung | Métastase intramammaire d'un cancer pulmonaire |
| DCM | | 111327 | Metastatic cancer to the breast from the ovary | Métastase intramammaire d'un cancer ovarien |
| DCM | | 111330 | Metastatic disease to axillary node | Ganglion axillaire métastatique |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|--|--|
| DCM | | 111326 | Metastatic melanoma to the breast | Métastase intramammaire d'un mélanome malin |
| DCM | | 111328 | Metastatic sarcoma to the breast | Métastase intramammaire d'un sarcome |
| DCM | | 111284 | Microglandular adenosis | Adénose microglandulaire |
| SRT | | F-01742 | Microlobulated lesion | Lésion microlobulée |
| UCUM | | um | micrometer | Micromètre |
| DCM | | 112122 | Micronodule | Micronodule |
| SRT | | R-4081A | Middle | Milieu |
| SRT | | T-28825 | Middle lobe of lung | Lobe moyen du poumon |
| SRT | | T-D3209 | Middle zone of lung | Zone moyenne du poumon |
| DCM | | 112085 | Midlung window | Fenêtre lobaire moyenne |
| SRT | | R-404FA | Mild | faible |
| DCM | | 112129 | Miliary pattern | Aspect miliaire |
| SRT | | F-01765 | Milk of calcium calcification | Lait calcique |
| UCUM | | mm | millimeter | Millimètre |
| DCM | | 112179 | Minimum Attenuation Coefficient | Coefficient d'atténuation minimum |
| SRT | | G-A194 | Minor Axis | Axe secondaire |
| UCUM | | min | minute | Minute |
| SRT | | T-35300 | Mitral Valve | Valve atrio-ventriculaire gauche |
| DCM | | 111200 | MLO Evidence of motion blur | Oblique externe: présence d'un flou cinétique |
| DCM | | 111201 | MLO Inframammary fold is not open | Oblique externe: sillon sous-mammaire non visible |
| DCM | | 111197 | MLO Insufficient pectoral muscle | Oblique externe: muscle pectoral insuffisamment visible |
| DCM | | 111198 | MLO No fat is visualized posterior to fibroglandular tissues | Oblique externe: lame graisseuse rétroglandulaire non visualisée |
| DCM | | 111199 | MLO Poor separation of deep and superficial breast tissues | Oblique externe: mauvaise séparation des tissus superficiels et profonds |
| SRT | | G-A002 | Moderate | Modéré |
| UCUM | | mo | Month | Mois |
| SRT | | F-01729 | More defined | Mieux défini |
| DCM | | 112130 | Mosaic pattern | Aspect en mosaïque |
| DCM | | 112080 | Mosaic perfusion | Perfusion en mosaïque |
| DCM | | 111210 | Motion blur | Flou cinétique |
| DCM | | 111210 | Motion blur | Artefact de mouvement |
| LN | | 18755-9 | MR Report | Compte rendu IRM |
| SRT | | M-84803 | Mucinous adenocarcinoma (Colloid carcinoma) | Carcinome (mucineux) colloïde |
| SRT | | G-A443 | Multifocal | Multifocal |
| DCM | | 111329 | Multifocal intraductal carcinoma | Carcinome intracanalair multifocal |
| DCM | | 111332 | Multifocal invasive ductal carcinoma | Carcinome canalaire infiltrant multifocal |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|--|
| DCM | | 111285 | Multiple Intraductal Papillomas | Papillomes multiples |
| SRT | | R-420AE | Muscular | Musculaire |
| SRT | | M-88250 | Myofibroblastoma | Myofibroblastome |
| SRT | | R-41727 | Narrow | Étroit |
| SRT | | T-11303 | Neck of rib | Col de la côte |
| SRT | | A-30360 | Needle | Aiguille |
| DCM | | 111144 | Needle localization and biopsy | Répérage métallique préopératoire et biopsie-exérèse |
| SRT | | D0-F035F | Neoplasm of mammary skin | Tumeur de la peau mammaire |
| SRT | | M-95400 | Neurofibroma | Neurofibrome |
| SRT | | M-95401 | Neurofibromatosis | Neurofibromatose |
| SRT | | F-01721 | New finding | Nouvel élément |
| SRT | | T-04100 | Nipple | Mamelon |
| DCM | | 111297 | Nipple Characteristic | Caractéristiques du mamelon |
| DCM | | 111205 | Nipple not in profile | Le mamelon n'est pas de profil |
| SRT | | D7-90554 | Nipple retraction | Rétraction mamelonnaire |
| DCM | | 112177 | Nipple ring | Cerclage mammelonnaire |
| DCM | | 111286 | No abnormality | Pas d'anomalie |
| DCM | | 111245 | No algorithms succeeded; without findings | Aucun algorithme n'a réussi; sans élément découvert |
| DCM | | 111213 | No image | Pas d'image |
| SRT | | F-01723 | No significant changes in the finding | Pas de modification significative de l'élément |
| DCM | | 110009 | No subsequent Workitems | Aucun sujet de travail ultérieur |
| SRT | | R-403A7 | Nodular | Nodulaire |
| DCM | | 112067 | Nodular pattern | Aspect nodulaire |
| SRT | | M-03010 | Nodule | Nodule |
| SRT | | M-95913 | Non-Hodgkin's lymphoma | Lymphome non hodgkinien |
| DCM | | 111102 | Non-lesion | Pas de lésion |
| DCM | | 112076 | Non-Lesion at Baseline | Anomalie « non lésion » à T0 |
| DCM | | 112037 | Non-lesion Modifier | Modificateur lié à une « non lésion » |
| DCM | | 112075 | Non-Target Lesion at Baseline | Lésion « non cible » à T0 |
| DCM | | 112045 | Non-Target Lesion Complete Response | Disparition des lésions « non cibles » |
| DCM | | 112046 | Non-Target Lesion Incomplete Response or Stable Disease | Réponse partielle ou maladie stable sur lésions « non cibles » |
| DCM | | 112047 | Non-Target Lesion Progressive Disease | Progression sur lésions « non cibles » |
| DCM | | 111251 | Normal axillary node | Ganglion axillaire normal |
| DCM | | 111287 | Normal breast tissue | Tissu mammaire normal |
| DCM | | 111140 | Normal interval follow-up | Intervalle normal de surveillance |
| SRT | | M-02000 | Normal shape | Forme normale |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|---|
| DCM | | 111244 | Not all algorithms succeeded; with findings | Certains algorithmes n'ont pas réussi; avec élément découvert |
| DCM | | 111243 | Not all algorithms succeeded; without findings | Certains algorithmes n'ont pas réussi; sans élément découvert |
| DCM | | 111225 | Not Attempted | Non traité |
| DCM | | 111152 | Not for Presentation: Rendering device expected not to present | Pas de présentation |
| DCM | | 111038 | Number of calcifications | Nombre de calcifications |
| SRT | | J-07100 | Nurse | Infirmière |
| DCM | | 111039 | Object type | Type d'objet |
| SRT | | G-A472 | Oblique | Oblique |
| SRT | | F-01743 | Obscured lesion | Lésion masquée |
| DCM | | 111322 | Occult carcinoma presenting with axillary lymph node metastases | Carcinome occulte révélé par des métastases axillaires |
| DCM | | 113000 | Of Interest | Interessant |
| DCM | | 111290 | Oil cyst (fat necrosis cyst) | Cytostéatonécrose kystisée |
| DCM | | 111138 | Old films for comparison | Clichés antérieurs pour comparaison |
| DCM | | 112060 | Oligemia | Oligémie |
| SRT | | G-A103 | One-sided | Situé d'un seul côté |
| DCM | | 112001 | Opacity | Opacité Note Typically used with projection chest X-Ray |
| DCM | | 112027 | Opacity Descriptor | Descripteur de l'opacité |
| SRT | | A-00D7B | Opaque marker | Marqueur Opaque |
| DCM | | 112014 | Orientation Descriptor | Descripteur de l'orientation |
| DCM | | 111040 | Original Source | Source originelle |
| DCM | | 112053 | Osseous | Osseux |
| DCM | | 112038 | Osseous Modifier | Modificateur lié à une structure osseuse |
| SRT | | F-12100 | Ossification | Ossification |
| SRT | | M-91803 | Osteogenic sarcoma | Ostéosarcome |
| DCM | | 121102 | Other sex | Autre sexe |
| DCM | | 111220 | Other failure | Autre défaillance |
| DCM | | 111175 | Other Marker | Autre marqueur |
| SRT | | R-40941 | Outer | En dehors |
| DCM | | 111041 | Outline | Contours |
| DCM | | 111212 | Over exposed | Sur-exposé |
| DCM | | 111234 | Overall Impression / Recommendation Analysis | Analyse de l'Impression / ecommandation globale |
| SRT | | M-02120 | Ovoid shape (Oval) | Forme ovale (Ovale) |
| SRT | | A-11101 | Cardiac Pacemaker | Stimulateur cardiaque |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|---|
| SRT | | A-10042 | Compression paddle | Palette de compression |
| SRT | | M-85403 | Paget's disease, mammary (of the nipple) | Maladie de Paget du mamelon |
| DCM | | 112176 | Pancreatic stent | Stent pancréatique |
| SRT | | M-80503 | Papillary carcinoma (invasive) | Carcinome papillaire infiltrant |
| SRT | | M-80502 | Papillary carcinoma in-situ | Carcinome papillaire in-situ |
| SRT | | M-80500 | Papilloma | Papillome |
| DCM | | 112091 | Paraspinal line | Ligne paravertébrale |
| DCM | | 112112 | Parenchymal band | Bande parenchymateuse |
| DCM | | 111223 | Partially Succeeded | Succès partiel |
| DCM | | 121055 | Path | Tracé |
| DCM | | 121211 | Path length | Longueur du tracé |
| DCM | | 111042 | Pathology | Pathologie |
| DCM | | 111043 | Patient Orientation Column | Colonne concernant l'orientation du patient |
| DCM | | 111044 | Patient Orientation Row | Ligne concernant l'orientation du patient |
| SRT | | T-12200 | Pectoral girdle | Ceinture pectorale |
| DCM | | 111045 | Pectoral Muscle Outline | Contour du muscle pectoral |
| SRT | | T-14110 | Pectoralis major muscle | Muscle grand pectoral |
| SRT | | T-14120 | Pectoralis minor muscle | Muscle petit pectoral |
| SRT | | T-11515 | Pedicle of vertebra | Pédicule de la vertèbre |
| DCM | | 111046 | Percent Glandular Tissue | Pourcentage de tissu glandulaire |
| DCM | | 112185 | Performance of CT for Detection of Pulmonary Embolism in Adults | Le scanner dans les embolies pulmonaires de l'adulte, ACR |
| DCM | | 112186 | Performance of High-Resolution CT of the Lungs in Adults | Le scanner thoracique haute résolution de l'adulte, ACR |
| DCM | | 112035 | Performance of Pediatric and Adult Chest Radiography, ACR | Les radiographies thoraciques de l'enfant et de l'adulte, ACR |
| DCM | | 112184 | Performance of Pediatric and Adult Thoracic CT | Le scanner thoracique de l'enfant et de l'adulte, ACR |
| DCM | | 121094 | Performing | Réalisateur de l'examen |
| SRT | | T-46210 | Pericardiophrenic Artery | Artère péricardo-phrénique |
| SRT | | G-A197 | Perimeter | Périmètre |
| DCM | | 121057 | Perimeter Outline | Délimitation du périmètre |
| SRT | | G-A111 | Peripheral | Périphérique |
| SRT | | G-A111 | Peripheral | Périphérique |
| DCM | | 111299 | Peripheral duct papillomas | Papillomes périphériques |
| SRT | | G-A195 | Perpendicular Axis | Axe orthogonal |
| DCM | | 112123 | Phantom tumor (pseudotumor) | Image pseudo-tumorale |
| SRT | | M-90201 | Phyllodes tumor | Tumeur phyllode |
| SRT | | M-90203 | Phyllodes tumor, malignant | Sarcome phyllode (Cystosarcome phyllode malin) |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|--|--|
| SRT | | J-004E8 | Physician | Médecin |
| SRT | | A-12024 | Pin | Épingle |
| SRT | | M-97313 | Plasmacytoma | Plasmocytome |
| SRT | | D2-60302 | Plate-like atelectasis | Atélectasie plane |
| SRT | | M-89400 | Pleomorphic adenoma | Adénome pléomorphe |
| DCM | | 112081 | Pleonemia | Hypervascularisation |
| SRT | | T-29000 | Pleural structure | Plèvres |
| SRT | | D2-81180 | Pneumomediastinum | Pneumomédiastin |
| SRT | | D2-80300 | Pneumothorax | Pneumothorax |
| SRT | | R-428E7 | Poorly defined | Mal définies |
| DCM | | 112141 | Poorly demarcated | Mal délimité |
| DCM | | 112172 | Portacath | Chambre de perfusion implantable |
| DCM | | 112011 | Positioner Primary Angle | Angle de positionnement primaire |
| DCM | | 112012 | Positioner Secondary Angle | Angle de positionnement secondaire |
| DCM | | 111209 | Positioning | Positionnement |
| DCM | | 111291 | Post reduction mammoplasty | Mammoplastie après réduction |
| SRT | | G-A120 | Postaxial | Postaxial |
| SRT | | R-404CE | Posterior | Postérieur |
| DCM | | 112089 | Posterior junction line | Ligne médiastinale postérieure |
| SRT | | T-28220 | Posterior segment of right upper lobe | Segment postérieur du lobe supérieur droit |
| DCM | | 112092 | Posterior tracheal stripe | Bande trachéale postérieure |
| SRT | | G-A182 | Posterolateral | Postéro-latéral |
| SRT | | G-A121 | Preaxial | Pré-axial |
| SCT | | 364320009 | Pregnancy observable | Grossesse |
| DCM | | 111151 | Presentation Optional: Rendering device may present | Présentation optionnelle |
| DCM | | 111150 | Presentation Required: Rendering device is expected to present | Présentation requise |
| DCM | | 121069 | Previous Finding | Résultat antérieur |
| DCM | | 121068 | Previous Findings | Résultats antérieurs |
| DCM | | 112059 | Primary complex | Complexe primaire |
| DCM | | 110008 | Print | Imprimer |
| LN | | 55114-3 | Prior Procedure Descriptions | Description de la procédure précédente |
| DCM | | 111047 | Probability of cancer | Probabilité de cancer |
| DCM | | 121065 | Procedure Description | Description de la procédure |
| SRT | | G-A140 | Profundis | Profondeur |
| DCM | | 112151 | Profusion | Profusion |
| SRT | | F-10310 | prone | Procubitus |
| SRT | | A-04000 | Prosthesis | Prothèse |
| SRT | | G-A118 | Proximal | Proximal |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|---|
| DCM | | 111292 | Pseudoangiomatous stromal hyperplasia | Hyperplasie stromale pseudo-angiomateuse |
| DCM | | 112068 | Pseudoplaque | Pseudo-plaque |
| SRT | | T-44000 | Pulmonary artery | Artère pulmonaire |
| SRT | | D3-40230 | Pulmonary embolism | Embolie pulmonaire |
| SRT | | T-44100 | Pulmonary trunk | Tronc artériel pulmonaire |
| SRT | | T-48500 | Pulmonary vein | Veine pulmonaire |
| SRT | | F-01767 | Punctate calcification | Calcification punctiforme régulière |
| DCM | | 111048 | Quadrant location | Localisation du quadrant |
| DCM | | 111049 | Qualitative Difference | Différence qualitative |
| DCM | | 111050 | Quality Assessment | Évaluation de la qualité |
| DCM | | 110002 | Quality Control | Contrôle de qualité |
| DCM | | 111051 | Quality Control Standard | Standard de contrôle de qualité |
| DCM | | 111052 | Quality Finding | Critère de qualité |
| DCM | | 113010 | Quality Issue | Problème de qualité |
| SRT | | M-78731 | Radial scar | Cicatrice radiaire |
| DCM | | 113921 | Radiation Exposure | Exposition aux rayonnements |
| LN | | 73569-6 | Radiation Exposure and Protection Information | Exposition aux rayonnements et informations de radioprotection |
| SCT | | 440252007 | Administration of radiopharmaceutical | Substance radioactive administrée |
| SRT | | J-00187 | Radiographer | Manipulateur (rice) |
| DCM | | 112005 | Radiographic anatomy | Radio-anatomie |
| LN | | 11528-7 | Radiology Report | Compte rendu radiologique |
| SRT | | G-A196 | Radius | Rayon |
| DCM | | 112022 | RECIST | Critères d'évaluation de la réponse tumorale (tumeurs solides) |
| DCM | | 121075 | Recommendation | Recommandation |
| DCM | | 121074 | Recommendations | Recommandations |
| DCM | | 111053 | Recommended Follow-up | Surveillance recommandée |
| DCM | | 111054 | Recommended Follow-up Date | Date recommandée de surveillance |
| DCM | | 111055 | Recommended Follow-up Interval | Intervalle recommandé de surveillance |
| DCM | | 121097 | Recording | Qui fait le compte rendu |
| SRT | | F-10450 | recumbent | Couché |
| DCM | | 111338 | Recurrent malignancy | Cancer récidivant |
| UMLS | | C1709880 | Referring | Médecin référent |
| SRT | | F-01773 | Regional calcification distribution | Distribution régionale des calcifications |
| SRT | | J-00172 | Registrar | Secrétaire |
| DCM | | 113001 | Rejected for Quality Reasons | Rejetées pour des motifs de qualité |
| SRT | | F-0172A | Removal of implant since previous mammogram | Exérèse de la prothèse mammaire depuis la mammographie précédente |
| DCM | | 111056 | Rendering Intent | Intention d'insertion |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|--|--|
| DCM | | 110007 | Report Verification | Vérification du compte rendu |
| LN | | 55115-0 | Request | Demande |
| DCM | | 121096 | Requesting | Médecin demandeur |
| SRT | | J-005E6 | Resident | Résident |
| DCM | | 112020 | Response Evaluation | Evaluation de la réponse |
| DCM | | 112021 | Response Evaluation Method | Méthode d'évaluation de la réponse |
| DCM | | 112113 | Reticular pattern | Aspect réticulaire |
| DCM | | 112065 | Reticulonodular pattern | Aspect réticulo-nodulaire |
| SRT | | T-11300 | Rib | Côte |
| DCM | | 112096 | Rib Scalene Tubercle | Tubercule scalénique de la première côte |
| SRT | | G-A100 | Right | Droit |
| SRT | | G-A102 | Right and left | Droit et gauche |
| SRT | | T-04020 | Right breast | Sein droit |
| SRT | | G-A100 | Right lateral | Latéral droit |
| SRT | | F-10317 | right lateral decubitus | Décubitus latéral droit |
| SRT | | T-26100 | Right main bronchus | Bronche principale droite |
| DCM | | 112093 | Right tracheal stripe | Bande paratrachéale droite |
| SRT | | R-102D3 | Rolled Lateral | Roulé externe |
| SRT | | R-102D4 | Rolled Medial | Roulé interne |
| SRT | | M-02100 | Round shape | Ronde |
| SRT | | F-01768 | Round shaped calcification | Calcification ronde |
| SRT | | G-A145 | Sagittal | Sagittal |
| SRT | | T-13450 | Scalenus anterior muscle | Muscle scalène antérieur |
| SRT | | T-12280 | Scapula | Scapula |
| DCM | | 112101 | Scapular Infraspinatus Fossa | Fosse sous épineuse |
| DCM | | 112099 | Scapular Spine | Epine de l'omoplate |
| DCM | | 112100 | Scapular Supraspinatus Fossa | Fosse sus épineuse |
| SRT | | M-78060 | Scar tissue | Tissu cicatriciel |
| SRT | | F-01712 | Scattered fibroglandular densities | Opacités fibro-glandulaires éparses |
| SRT | | M-74220 | Sclerosing adenosis | Adénose sclérosante |
| DCM | | 111057 | Scope of Feature | Champ des caractéristiques |
| DCM | | 112054 | Secondary pulmonary lobule | Lobule pulmonaire secondaire |
| SRT | | M-85023 | Secretory (juvenile) carcinoma of the breast | Carcinome mammaire sécrétoire (juvénile) |
| SRT | | T-280D0 | Segment of lung | Segment du poumon |
| SRT | | G-A137 | Segmental | Segmentaire |
| SRT | | F-01774 | Segmental calcification distribution | Segmentaires |
| DCM | | 111099 | Selected region | Région sélectionnée |
| DCM | | 111058 | Selected Region Description | Description de la région sélectionnée |
| SRT | | F-10460 | semi-erect | Semi-couché |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|-------------------------------|---|
| SRT | | F-10316 | semi-prone | Semi-procubitus |
| DCM | | 112114 | Septal line(s) | Ligne(s) septale(s) |
| DCM | | 112002 | Series Instance UID | Identificateur unique d'instance de série |
| SRT | | M-36050 | Seroma | Lymphocèle |
| SRT | | T-14140 | Serratus anterior muscle | Muscle dentelé antérieur |
| SRT | | G-A003 | Severe | Sévère |
| SRT | | G-C197 | Severity | Gravité |
| DCM | | 112124 | Shadow | Image |
| SRT | | T-11309 | Shaft of rib | Corps de la côte |
| SRT | | M-020F9 | Shape | Forme |
| DCM | | 112137 | Sharply defined | A limites nettes |
| DCM | | 112140 | Sharply demarcated | Très nettement délimité |
| SRT | | G-A186 | Short Axis | Petit axe |
| SRT | | M-84903 | Signet ring cell carcinoma | Carcinome à cellules en bague à chaton |
| DCM | | 112069 | Signet-ring sign | Signe de la bague à chaton |
| DCM | | 112152 | Silhouette sign | Signe de la silhouette |
| DCM | | 111296 | Silicone granuloma | Granulome au silicone |
| DCM | | 111059 | Single Image Finding | Élément présent sur une seule image |
| DCM | | 112024 | Single Image Finding Modifier | Modificateur lié à une anomalie visible sur une seule image |
| DCM | | 112008 | Site involvement | Site atteint |
| SRT | | F-103A0 | sitting | Assis |
| DCM | | 112025 | Size Descriptor | Descripteur de la taille |
| SRT | | D0-00050 | Skin lesion | Lésion cutanée |
| SRT | | F-01799 | Skin retraction of breast | Rétraction cutanée du sein |
| SRT | | F-0179A | Skin thickening of breast | Épaississement cutané du sein |
| SRT | | R-404A8 | Small | Petit |
| DCM | | 112125 | Small irregular opacities | Petites opacités irrégulières |
| DCM | | 112126 | Small rounded opacities | Micro-nodules |
| DCM | | 112144 | Soft tissue | Tissus mous |
| DCM | | 111218 | Software failure | Défaillance logicielle |
| SRT | | P5-B3402 | Spatial collocation analysis | Analyse de colocalisation spatiale |
| SRT | | P5-B3404 | Spatial proximity analysis | Analyse de proximité spatiale |
| DCM | | 112136 | Spiculated | Spiculée |
| SRT | | F-01745 | Spiculated lesion | Lésion spiculée |
| SRT | | T-14050 | Spinalis muscle | Muscles spinaux |
| SRT | | M-78190 | Spindle cell nodule (tumor) | Nodule (tumeur) à cellules fusiformes |
| SRT | | T-11500 | Spine | Rachis |
| SRT | | T-11512 | Spinous process of vertebra | Apophyse épineuse de la vertèbre |
| SRT | | R-102D7 | Spot Compression | Compression localisée |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|--|--|
| SRT | | R-102D7 | Spot compression | Compression localisée |
| DCM | | 111136 | Spot magnification view(s) | Agrandissement localisé |
| SRT | | M-80703 | Squamous cell carcinoma | Carcinome épidermoïde |
| DCM | | 111340 | Squamous cell carcinoma of the nipple | Carcinome épidermoïde du mamelon |
| UCUM | | cm2 | Square centimeter | Centimètre carré |
| UCUM | | um2 | Square micrometer | Micromètre carré |
| UCUM | | mm2 | Square millimeter | Millimètre carré |
| DCM | | 112183 | Standard Deviation of Attenuation Coefficient | Ecart-type des coefficients d'atténuation |
| SRT | | F-10320 | standing | En position verticale |
| SRT | | A-13600 | Staple | Agrafe |
| SRT | | T-11221 | Sternal angle | Angle sternal |
| SRT | | T-13310 | Sternocleidomastoid muscle | Muscle sterno-cleïdo-mastoidien |
| SRT | | T-11210 | Sternum | Sternum |
| SRT | | F-10390 | stooped-over | Penché en avant |
| DCM | | 112094 | Stripe | Bande |
| DCM | | 111060 | Study Date | Date de l'étude |
| DCM | | 111061 | Study Time | Heure de l'étude |
| SRT | | G-A561 | Subacute | Subaigu |
| SRT | | F-0178D | Subareolar position | Situation rétroaréolaire |
| SRT | | G-A172 | Subcapsular | Sous-capsulaire |
| SRT | | T-46100 | Subclavian artery | Artère subclavière |
| SRT | | T-48330 | Subclavian vein | Veine subclavière |
| SRT | | T-14166 | Subcostal muscle | Muscle subcostal |
| DCM | | 112153 | Subpleural | Sous-pleural |
| DCM | | 112115 | Subpleural line | Ligne sous-pleurale |
| DCM | | 112098 | Subscapular Fossa | Fosse subscapulaire |
| SRT | | T-13650 | Subscapularis muscle | Muscle subscapulaire |
| DCM | | 111222 | Succeeded | Succès |
| DCM | | 111062 | Successful Analyses | Analyses réussies |
| DCM | | 111063 | Successful Detections | Procédures de détection réussies |
| DCM | | 111146 | Suggestive of malignancy - take appropriate action | Évocateur de malignité, une action appropriée doit être entreprise |
| DCM | | 111065 | Summary of Analyses | Résumé des analyses |
| DCM | | 111064 | Summary of Detections | Résumé des procédures de détections |
| SRT | | G-A139 | Superficial | Superficiel |
| SRT | | R-42191 | Superior | Supérieur |
| SRT | | T-116EE | Superior articular facet of axis | Facette articulaire supérieure de l'axis |
| SRT | | T-1153E | Superior articular process of vertebra | Massif articulaire supérieur |
| SRT | | T-46350 | Superior phrenic artery | Artère phrénique supérieure |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|--|
| SRT | | T-48610 | Superior vena cava | Veine cave supérieure |
| SRT | | R-102D0 | superolateral to inferomedial oblique | Supérolatéral vers inféromédial oblique |
| SRT | | F-10340 | supine | Décubitus |
| SRT | | T-13610 | Supraspinatus muscle | Muscle supraépineux |
| SRT | | T-11218 | Suprasternal notch | Creux sus-sternal |
| SRT | | G-A206 | Surface | Surface |
| SRT | | A-13500 | Suture | Matériel de suture |
| SRT | | G-A572 | Systemic | Systémique |
| SRT | | T-4000E | Systemic vascular structure | Structure vasculaire systémique |
| SRT | | R-102C2 | Tangential | Tangentiel |
| DCM | | 112162 | Target | « cible » |
| DCM | | 111155 | Target content items are related contra-laterally | Les items de contenu sont situés de façon controlatérale |
| DCM | | 111154 | Target content items are related spatially | Les items de contenu sont reliés spatialement |
| DCM | | 111153 | Target content items are related temporally | Les items de contenu sont reliés temporellement |
| DCM | | 112074 | Target Lesion at Baseline | Lésion « cible » à T0 |
| DCM | | 112041 | Target Lesion Complete Response | Réponse complète sur lésions « cibles » |
| DCM | | 112042 | Target Lesion Partial Response | Réponse partielle sur lésions « cibles » |
| DCM | | 112043 | Target Lesion Progressive Disease | Progression de la maladie sur lésions « cibles » |
| DCM | | 112044 | Target Lesion Stable Disease | Maladie stable sur lésions « cibles » |
| DCM | | 123014 | Target Region | Région cible |
| DCM | | 111194 | Technical factors missing | Paramètres techniques absents |
| SRT | | J-00187 | Technologist | Technicien |
| SRT | | P5-B3406 | Temporal correlation | Corrélation temporelle |
| SRT | | T-13640 | Teres major muscle | Muscle grand rond |
| SRT | | T-13630 | Teres minor muscle | Muscle petit rond |
| DCM | | 112010 | Texture Descriptor | Descripteur de la texture |
| SRT | | T-C6510 | Thoracic Duct | Canal thoracique |
| DCM | | 112032 | Threshold Attenuation Coefficient | Valeur de coefficient d'atténuation seuil |
| SRT | | D3-87780 | Thrombophlebitis of breast (Mondor's disease) | Thrombophlébite du sein (maladie de Mondor) |
| SRT | | T-C8000 | Thymus Gland | Thymus |
| SRT | | T-46130 | Thyrocervical trunk | Tronc thyro-bicervico-scapulaire |
| SRT | | T-B6000 | Thyroid | Thyroïde |
| DCM | | 112133 | Too small | Trop petit |
| SRT | | T-32423 | Trabeculae carnae | Piliers du ventricule |
| SRT | | F-01798 | Trabecular thickening of breast | Épaississement trabéculaire du sein |
| SRT | | T-25000 | Trachea | Trachée |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|--|
| SRT | | P1-26100 | Tracheotomy | Trachéotomie |
| DCM | | 112039 | Tracking Identifier | Identifiant d'anomalie |
| DCM | | 112040 | Tracking Unique Identifier | Identifiant unique d'anomalie |
| DCM | | 112116 | Tramline shadow | Image en rail |
| DCM | | 110006 | Transcription (task) | Transcription |
| DCM | | 110012 | Transcription (type of output) | Transcription |
| SRT | | G-A117 | Transverse | Transverse |
| SRT | | T-11513 | Transverse process of vertebra | Apophyse transverse de la vertèbre |
| SRT | | T-141A5 | Transversus thoracis | Muscle transverse du thorax |
| SRT | | T-14171 | Trapezius muscle | Muscle trapèze |
| DCM | | 112127 | Tree-in-bud sign | Signe de l'arbre en bourgeons |
| SRT | | F-10348 | Trendelenburg | Trendelenburg |
| SRT | | T-35100 | Tricuspid Valve | Valve atrioventriculaire droite |
| SRT | | T-11304 | Tubercle of rib | Tubercule de la côte |
| SRT | | M-82113 | Tubular adenocarcinoma | Carcinome tubuleux |
| SRT | | M-82110 | Tubular adenoma | Adénome tubuleux |
| SRT | | F-01797 | Tubular density | Opacité tubulaire |
| DCM | | 112117 | Tubular shadow | Image tubulée |
| DCM | | 112009 | Type of Content | Type de contenu |
| SRT | | P5-B0000 | Diagnostic ultrasonography | Procédure échographique |
| LN | | 18760-9 | Ultrasound Report | Compte rendu d'échographie |
| DCM | | 111211 | Under exposed | Sous-exposé |
| SRT | | G-A103 | Unilateral | Unilatéral |
| SRT | | G-A103 | Unilateral | Unilatéral |
| DCM | | 111221 | Unknown failure | Défaillance inconnue |
| DCM | | 111176 | Unspecified | Non spécifié |
| DCM | | 112187 | Unspecified method of calculation | Méthode de calcul non spécifiée |
| DCM | | 111235 | Unusable - Quality renders image unusable | Inexploitable - La qualité rend l'image inexploitable |
| SRT | | R-42191 | Upper | En haut |
| SRT | | T-D4001 | Upper abdomen | Abdomen supérieur |
| SRT | | T-04002 | Upper inner quadrant of breast | Quadrant supéro-interne du sein |
| SRT | | T-04002 | Upper inner quadrant of breast | Quadrant supéro-interne du sein |
| SRT | | T-28820 | Upper lobe of lung | Lobe supérieur du poumon |
| SRT | | T-04004 | Upper outer quadrant of breast | Quadrant supéro-externe du sein |
| SRT | | T-04004 | Upper outer quadrant of breast | Quadrant supéro-externe du sein |
| SRT | | D-3208 | Upper zone of lung | Zone supérieure du poumon |
| SRT | | A-11C08 | Ureteric stent | Stent urétral |
| DCM | | 111236 | Usable - Does not meet the quality control standard | Exploitable - Ne répond pas aux standards de contrôle de qualité |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|---|--|
| DCM | | 111237 | Usable - Meets the quality control standard | Exploitable - Répond aux standards de contrôle de qualité |
| SRT | | F-0176B | Vascular calcification | Calcification vasculaire |
| DCM | | 112077 | Vasoconstriction | Vasoconstriction |
| DCM | | 112078 | Vasodilation | Vasodilatation |
| SRT | | A-14611 | Vena cava filter | Filtre cave |
| SRT | | R-404CC | Ventral | Ventral |
| SRT | | T-32400 | Ventricle | Ventricule |
| DCM | | 121098 | Verifying | Qui vérifie |
| SRT | | T-11510 | Vertebra | Vertèbre |
| SRT | | T-45700 | Vertebral artery | Artère vertébrale |
| SRT | | T-1151F | Vertebral canal | Canal vertébral |
| SRT | | T-11531 | Vertebral foramen | Foramen intervertébral |
| DCM | | 112097 | Vertebral Intervertebral Notch | Trou des apophyses transverses cervicales |
| SRT | | G-A144 | Vertical | Vertical |
| SRT | | G-A144 | Vertical | Vertical |
| DCM | | 111066 | Vertical Pixel Spacing | Espacement vertical des pixels |
| DCM | | 112132 | Very small | Très petit |
| DCM | | 111178 | View and Laterality Marker does not have both view and laterality | Le marquage n'indique ni l'incidence ni le côté |
| DCM | | 111183 | View and Laterality Marker is incorrect | Le marquage est incorrect |
| DCM | | 111177 | View and Laterality Marker is missing | Marquage absent |
| DCM | | 111180 | View and Laterality Marker is not near the axilla | Le marquage n'est pas près de l'aisselle |
| DCM | | 111184 | View and Laterality Marker is off image | Le marquage est en dehors du film |
| DCM | | 111182 | View and Laterality Marker is partially obscured | Le marquage est partiellement masqué |
| DCM | | 111181 | View and Laterality Marker overlaps breast tissue | Le marquage chevauche le sein |
| DCM | | 111298 | Virginal hyperplasia | Hypertrophie juvénile |
| SRT | | G-D705 | Volume | Volume |
| DCM | | 121216 | Volume estimated from single 2D region | Volume estimé à partir d'une seule région 2D |
| DCM | | 121217 | Volume estimated from three or more non-coplanar 2D regions | Volume estimé à partir de trois régions 2D non coplanaires ou plus |
| DCM | | 121218 | Volume estimated from two non-coplanar 2D regions | Volume estimé à partir de deux régions 2D non coplanaires |
| DCM | | 121219 | Volume of bounding three dimensional region | Volume d'une région tridimensionnelle de forme quelconque |
| DCM | | 121220 | Volume of circumscribed sphere | Volume de la sphère circonscrite |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning French Language |
|--------------------------|-----------------------|------------|-------------------------------|---|
| DCM | | 121221 | Volume of ellipsoid | Volume d'un ellipsoïde |
| DCM | | 121222 | Volume of sphere | Volume d'une sphère |
| DCM | | 112056 | Volume scoring method | Score de calcification coronaire basé sur le volume de chaque calcification |
| UCUM | | wk | Week | Semaine |
| SRT | | R-40771 | Well defined | Bien définie |
| DCM | | 112139 | Well demarcated | Bien délimité |
| DCM | | 112029 | WHO | OMS |
| SRT | | G-A220 | Width | Largeur |
| DCM | | 112026 | Width Descriptor | Descripteur de la largeur |
| SRT | | T-11227 | Xiphoid process of sternum | Appendice xiphoïde |
| UCUM | | a | Year | Année |

Note

1. DAO = Détection Assistée par Ordinateur
2. In (113006, DCM, "For Therapy"), therapy could be translated as "thérapeutique" as well as "traitement". There is an issue with the word "traitement" because it is the same word used for image processing. To avoid any ambiguity we have chosen the word "thérapeutique", which is less used in common language.

Table E-2 provides a mapping of pathology codes used in DICOM, to ADICAP (L'association pour le Développement de l'Informatique en Anatomie et Cytologie Pathologiques).

Table E-2. Mapping of Pathology Codes used in DICOM to ADICAP

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning French Language | Equivalent ADICAP Code |
|--------------------------|-----------------------|------------|--|------------------------|
| SRT | | M-55160 | (Tumeur) amyloïde | 5310 |
| SRT | | M-83240 | Adénolipome | A0L2 |
| DCM | | 111258 | Adénome ductal | A0B2 |
| SRT | | M-82040 | Adénome lactant | A0M2 |
| SRT | | M-89400 | Adénome pléomorphe | A0R8 |
| SRT | | M-82110 | Adénome tubuleux | A0P1 |
| DCM | | 111250 | Adénomyoépithéliome | A0A0 |
| SRT | | M-74200 | Adénose | 6772 |
| DCM | | 111284 | Adénose microglandulaire | 6772 |
| SRT | | M-74220 | Adénose sclérosante | 6772 |
| SRT | | M-88610 | Angiolipome | L0P1 |
| SRT | | M-76100 | Angiomatose | V0C0 |
| SRT | | M-91203 | Angiosarcome (hémangiosarcome) | V7A0 |
| SRT | | M-84803 | Carcinome (mucineux) colloïde | A7N4 |
| SRT | | M-82003 | Carcinome adénoïde kystique (cylindrome) | A7X6 |
| SRT | | M-84013 | Carcinome apocrine | A7K6 |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning French Language | Equivalent ADICAP Code |
|--------------------------|-----------------------|------------|---|------------------------|
| DCM | | 111307 | Carcinome basocellulaire du mamelon | B7A0 |
| SRT | | M-85003 | Carcinome canalaire infiltrant | A7A0 |
| DCM | | 111340 | Carcinome épidermoïde du mamelon | E7A0 |
| DCM | | 111341 | Carcinome intracanaulaire | A5B2 |
| SRT | | D7-F0A02 | Carcinome lobulaire in situ mammaire | A5B0 |
| SRT | | M-85203 | Carcinome lobulaire infiltrant | A7B1 |
| SRT | | M-85023 | Carcinome mammaire sécrétoire (juvénile) | A7N7 |
| SRT | | M-85103 | Carcinome médullaire | A7X2 |
| SRT | | M-85733 | Carcinome métaplasique | A7W0 |
| SRT | | M-80503 | Carcinome papillaire infiltrant | A7C6 |
| SRT | | M-82113 | Carcinome tubuleux | A7F0 |
| SRT | | M-92200 | Chondrome | C0A0 |
| SRT | | M-92203 | Chondrosarcome | C7A0 |
| SRT | | M-78731 | Cicatrice radiaire | 6773 |
| SRT | | D7-90434 | Cytostéatonécrose mammaire | 5230 |
| SRT | | M-78800 | Fibromatose | F0F0 |
| SRT | | M-90100 | Fibroadénome | A0P2 |
| SRT | | M-90300 | Fibroadénome juvénile | A0P2 |
| SRT | | M-88103 | Fibrosarcome | F7A0 |
| SRT | | D7-90370 | Galactophorite ectasiente mammaire (ectasie canalaire mammaire) | 6546 |
| SRT | | D7-90420 | Gynécomastie | 6551 |
| SRT | | M-75500 | Hamartome | D0S0 |
| SRT | | M-91200 | Hémangiome | V0A0 |
| SRT | | D3-F0620 | Hémangiome sous-cutané non parenchymateux | V0A0 |
| SRT | | M-91220 | Hémangiome veineux | VOA8 |
| SRT | | M-91501 | Hémangiopéricytome | V0K0 |
| SRT | | M-72170 | Hyperplasie canalaire | 6712 |
| SRT | | M-72175 | Hyperplasie intracanaulaire atypique | 6830 |
| SRT | | M-72105 | Hyperplasie lobulaire atypique | 6840 |
| SRT | | D7-90428 | Hyperplasie lobulaire mammaire | 6721 |
| DCM | | 111298 | Hypertrophie juvénile | 6080 |
| SRT | | D7-90452 | Infarctus mammaire | 4710 |
| SRT | | M-40000 | Infection | 7140 |
| SRT | | D7-90035 | Kyste du sein | 6544 |
| SRT | | M-88900 | Léiomyome | L0A0 |
| SRT | | M-88903 | Léiomyosarcome | L7A0 |
| SRT | | M-88500 | Lipome | L0L0 |
| SRT | | M-95913 | Lymphome non hodgkinien | K7G0 |
| SRT | | M-96503 | Maladie de Hodgkin | K7A0 |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning French Language | Equivalent ADICAP Code |
|--------------------------|-----------------------|------------|--|--------------------------------|
| SRT | | M-85403 | Maladie de Paget du mamelon | A7B7 |
| DCM | | 111259 | Mastopathie diabétique | 5010 |
| DCM | | 111334 | Mélanome malin du mamelon | M7A0 |
| SRT | | M-95400 | Neurofibrome | N0L0 |
| SRT | | M-91803 | Ostéosarcome | Q7A0 |
| SRT | | M-80500 | Papillome | A0P4 (unique), A0S4 (multiple) |
| SRT | | M-97313 | Plasmocytome | K7M0 |
| SRT | | M-44140 | Réaction à corps étranger | 7440 |
| SRT | | M-90203 | Sarcome phyllode (Cystosarcome phyllode malin) | A7P6 |
| SRT | | M-95800 | Tumeur à cellules granuleuses | X0H4 |
| SRT | | M-90201 | Tumeur phyllode | A0P6 |

F Japanese Language Meanings of Selected Codes Used in The DCMR (Normative)

Table F-1. Japanese Language Meanings of Selected Codes

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning Japanese Language |
|--------------------------|-----------------------|------------|--|------------------------------------|
| BI | 3.0 | II.AC.a | 0 - Need additional imaging evaluation | 0 - 追加撮影が必要 |
| BI | 3.0 | II.AC.b.1 | 1 - Negative | 1 - 異常なし |
| SRT | | F-01781 | 1 o'clock position | 1時 |
| SRT | | F-0178A | 10 o'clock position | 1 0 時 |
| SRT | | F-0178B | 11 o'clock position | 1 1 時 |
| SRT | | F-0178C | 12 o'clock position | 1 2 時 |
| BI | 3.0 | II.AC.b.2 | 2 - Benign Finding | 2 - 良性所見 |
| SRT | | F-01782 | 2 o'clock position | 2時 |
| BI | 3.0 | II.AC.b.3 | 3 - Probably Benign Finding - short interval follow-up | 3 - 良性-しかし悪性を否定できず所見-短い間隔での経過観察が必要 |
| SRT | | F-01783 | 3 o'clock position | 3時 |
| BI | 3.0 | II.AC.b.4 | 4 - Suspicious abnormality, biopsy should be considered | 4 - 悪性の疑い、生検を考慮 |
| SRT | | F-01784 | 4 o'clock position | 4時 |
| BI | 3.0 | II.AC.b.5 | 5 - Highly suggestive of malignancy, take appropriate action | 5 - 悪性、適切な処置が必要 |
| SRT | | F-01785 | 5 o'clock position | 5時 |
| SRT | | F-01786 | 6 o'clock position | 6 時 |
| SRT | | F-01787 | 7 o'clock position | 7 時 |
| SRT | | F-01788 | 8 o'clock position | 8 時 |
| SRT | | F-01789 | 9 o'clock position | 9 時 |
| DCM | | 111135 | Additional projections | 追加撮影 (P) |
| SRT | | M-82003 | Adenoid cystic carcinoma | 嚢胞腺癌 |
| SRT | | M-83240 | Adenolipoma | 腺脂肪腫 |
| SRT | | M-89830 | Adenomyoepithelioma | 腺筋上皮腫 |
| SRT | | M-74200 | Adenosis | 腺症 |
| DCM | | 111001 | Algorithm Name | アルゴリズム 名 |
| DCM | | 111002 | Algorithm Parameters | アルゴリズム・ パラメータ |
| DCM | | 111003 | Algorithm Version | アルゴリズム・ バージョン (版番号) |
| DCM | | 111242 | All algorithms succeeded; with findings | 全てのアルゴリズムが成功 ; 所見あり |
| DCM | | 111241 | All algorithms succeeded; without findings | 全てのアルゴリズムが成功 ; 所見なし |
| SRT | | F-01711 | Almost entirely fat | 脂肪性 |
| SRT | | F-0176C | Amorphous calcification | 淡く不明瞭な |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning Japanese Language |
|--------------------------|-----------------------|------------|---|--------------------------------|
| SRT | | M-55160 | Amyloid (tumor) | アミロイド腫瘍 |
| DCM | | 111004 | Analysis Performed | 解析済みの |
| SRT | | M-88610 | Angiolipoma | 血管脂肪腫 |
| SRT | | M-76100 | Angiomatosis | 血管腫症 |
| SRT | | M-91203 | Angiosarcoma | 血管肉腫 |
| SRT | | R-404CC | Anterior | 前方の |
| DCM | | 111141 | Any decision to biopsy should be based on clinical assessment | 臨床評価に基づいた生検の適応決定 (D) |
| SRT | | M-84013 | Apocrine adenocarcinoma | アポクリン癌 |
| SRT | | F-01795 | Architectural distortion of breast | 乳房の構築の乱れ |
| DCM | | 111215 | Artifact(s) other than grid or detector artifact | 検出器のアーチファクト以外のアーチファクト |
| DCM | | 111005 | Assessment Category | カテゴリー評価 |
| SRT | | F-01793 | Asymmetric breast tissue | 非対称性乳房組織 |
| SRT | | P5-B3412 | Asymmetric breast tissue analysis | 非対称性乳房組織解析 |
| SRT | | F-8A063 | Asynchronous involution of breast | 乳房の非同期性退縮 |
| SRT | | M-72175 | Atypical intraductal hyperplasia | 異型性乳管過形成；異型性乳管内過形成 |
| SRT | | M-72105 | Atypical lobular hyperplasia | 異型性小葉過形成 |
| BI | 3.0 | I.E.6 | Axillary adenopathy | 腋窩リンパ節腫大 |
| SRT | | F-0178E | Axillary tail position | 腋窩稜：乳腺の腋窩稜 (C'領域) |
| DCM | | 111307 | Basal cell carcinoma of the nipple | 乳頭の基底細胞癌 |
| SRT | | A-32475 | BB shot (Lead Pellet) | 鉛小球；BBマーカー |
| DCM | | 111143 | Biopsy should be considered | 要生検 (B) |
| SRT | | T-04080 | Both breasts | 両側：両側乳房 |
| SRT | | F-01710 | Breast composition | 乳房の構成 |
| SRT | | P5-B3414 | Breast composition analysis | 乳房の構成の解析 |
| DCM | | 111100 | Breast geometry | 乳房の形状 |
| SRT | | D7-90428 | Breast lobular hyperplasia | 小葉過形成：乳腺小葉過形成 |
| DCM | | 111007 | Breast Outline including Pectoral Muscle Tissue | 胸筋組織を含む乳房の輪郭 |
| SRT | | A-32110 | Bullet | マーカー |
| DCM | | 111017 | CAD Processing and Findings Summary | CAD処理と所見の要約 |
| SRT | | F-01775 | Calcification Cluster | 石灰化の集簇 |
| DCM | | 111008 | Calcification Distribution | 石灰化の分布 |
| DCM | | 111009 | Calcification Type | 石灰化のタイプ |
| SRT | | F-01769 | Calcified skin of breast | 皮膚；乳房の皮膚 |
| DCM | | 111304 | Carcinoma in children | 小児乳癌 |
| DCM | | 111305 | Carcinoma in ectopic breast | 副乳の乳癌 |
| DCM | | 111310 | Carcinoma in pregnancy and lactation | 妊娠・授乳期乳癌 |
| SRT | | D7-F0902 | Carcinoma in situ of male breast | 男性乳癌 |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning Japanese Language |
|--------------------------|-----------------------|------------|--|-------------------------------------|
| DCM | | 111306 | Carcinoma with endocrine differentiation | 内分泌分化を伴う癌 |
| SRT | | M-85733 | Carcinoma with metaplasia | 化生を伴う癌 |
| SRT | | A-26800 | Catheter | カテーテル |
| DCM | | 111203 | CC Nipple not centered on image | 頭尾方向撮影 乳頭が画像の中央にない |
| DCM | | 111202 | CC Not all medial tissue visualized | 頭尾方向撮影 内側組織が十分見えていない |
| DCM | | 111204 | CC Posterior nipple line does not measure within 1 cm of MLO | 頭尾方向撮影 乳頭後方線が内外斜位方向の 1 c m以内に計測できない |
| DCM | | 111010 | Center | 中心部 |
| SRT | | F-0178F | Central portion of breast position | 中央部：乳腺の中央部 |
| DCM | | 111011 | Certainty of Feature | 特徴の確信度 |
| DCM | | 111012 | Certainty of Finding | 所見の確信度 |
| DCM | | 111013 | Certainty of Impression | インプレッションの確信度 |
| SRT | | M-92200 | Chondroma | 軟骨腫 |
| SRT | | M-92203 | Chondrosarcoma | 軟骨肉腫 |
| SRT | | F-01741 | Circumscribed lesion | 境界明瞭平滑 |
| SRT | | A-12062 | Clip | クリップ |
| DCM | | 111014 | Clockface or region | 時計表示あるいは領域 |
| SRT | | F-01761 | Coarse (popcorn-like) calcification | 粗大 (ポップコーン状) |
| DCM | | 111195 | Collimation too close to breast | コリメーションが乳房に近すぎる |
| SRT | | A-1044 | Collimator | コリメータ |
| DCM | | 111015 | Composite Feature | 乳房の構成の特徴 |
| DCM | | 111016 | Composite type | 乳房の構成のタイプ |
| DCM | | 111018 | Content Date | 記録日 |
| DCM | | 111019 | Content Time | 記録時間 |
| SRT | | C-B0300 | Contrast agent NOS | 造影剤 |
| SRT | | D7-90035 | Cyst of breast | 乳腺嚢胞 |
| DCM | | 111147 | Cytologic analysis | 細胞診 (Y) |
| DCM | | 111193 | Date sticker is missing | 日付けステッカーがない |
| UCUM | | d | Day | 日 |
| SRT | | F-01727 | Decrease in number of calcifications | 石灰化の数の減少 |
| SRT | | M-02530 | Decrease in size | サイズの縮小 |
| SRT | | F-01796 | Mammography breast density | 乳房画像の濃度 |
| DCM | | 111020 | Depth | 深さ (三次元表示の奥行き) |
| DCM | | 111021 | Description of Change | 変化の記載 |
| DCM | | 111022 | Detection Performed | 検出済みの |
| DCM | | 111214 | Detector artifact(s) | 検出器のアーチファクト |
| DCM | | 111259 | Diabetic fibrous mastopathy | 糖尿病性乳腺症 |
| SRT | | F-017B3 | Difference in location | 部位 |
| SRT | | F-05179 | Difference in location | 部位 |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning Japanese Language |
|--------------------------|-----------------------|------------|---|--------------------------------|
| SRT | | F-017B7 | Difference in margin | 辺縁 |
| SRT | | F-017B5 | Difference in number of calcifications | 石灰化の数 |
| SRT | | F-017B2 | Difference in opacity | 濃度 |
| SRT | | F-017B6 | Difference in shape | 形状 |
| SRT | | F-017B1 | Difference in size | 大きさ |
| SRT | | F-05173 | Difference in size | 大きさ |
| SRT | | F-017B4 | Difference in spatial proximity | 空間的近接判定 |
| SRT | | F-017B8 | Difference in symmetry | 対称性 |
| DCM | | 111023 | Differential Diagnosis/Impression | 鑑別診断/インプレッション |
| SRT | | F-01770 | Diffuse calcification distribution | びまん性 / 散在性 |
| DCM | | 111258 | Ductal adenoma | 乳管腺腫 |
| SRT | | M-72170 | Ductal hyperplasia, Usual | 乳管過形成 ; 乳管内過形成 |
| SRT | | P5-40060 | Mammary ductogram | 乳房造影 (G) |
| SRT | | F-01762 | Dystrophic calcification | 異栄養性 ; 異栄養性石灰化 |
| SRT | | F-01763 | Eggshell calcification | 卵殻状 |
| DCM | | 111217 | Electrical failure | 電気系の故障 |
| SRT | | F-01752 | Equal density (isodense) lesion | 等濃度 |
| SRT | | F-01714 | Extremely dense | 高濃度 |
| DCM | | 111224 | Failed | 失敗 |
| DCM | | 111024 | Failed Analyses | 解析の失敗 |
| DCM | | 111025 | Failed Detections | 検出の失敗 |
| SRT | | F-01754 | Fat containing (radiolucent) lesion | 脂肪濃度を含む (X線透亮性) |
| SRT | | D7-90434 | Fat necrosis of breast | 脂肪壊死 : 乳房の脂肪壊死 |
| DCM | | 111159 | Feature detected on images from multiple modalities | 多数の検査法で検出される特徴 |
| DCM | | 111158 | Feature detected on multiple images | 多数の画像で検出される特徴 |
| DCM | | 111157 | Feature detected on only one of the images | 1 画像でのみ検出される特徴 |
| DCM | | 111156 | Feature detected on the only image | 画像のみで検出される特徴 |
| SRT | | M-90100 | Fibroadenoma | 線維腺腫 |
| DCM | | 111263 | Fibroadenomatoid hyperplasia | 線維腺腫様過形成 : 腺線維筋腫様過形成 |
| SRT | | M-78800 | Fibromatosis | 線維腫症 |
| SRT | | M-88103 | Fibrosarcoma | 線維肉腫 |
| DCM | | 111072 | Finding partially removed | 部分的に消失した所見 |
| SRT | | F-0176D | Fine, linear (casting) calcification | 微細線状 |
| SRT | | F-0176E | Fine, linear, branching (casting) calcification | 微細線状分枝状 |
| DCM | | 111191 | Flash doesn't include cassette/screen/detector identification | 患者情報等欄にカセット / スクリーン / 検出器名がない |
| DCM | | 111188 | Flash doesn't include date of examination | 患者情報等欄に検査日がない |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning Japanese Language |
|--------------------------|-----------------------|------------|--|-----------------------------------|
| DCM | | 111189 | Flash doesn't include facility name and location | 患者情報等欄に施設名と所在地がない |
| DCM | | 111192 | Flash doesn't include mammography unit identification | 患者情報等欄に乳房撮影装置名がない |
| DCM | | 111187 | Flash doesn't include patient name and additional patient id | 患者情報等欄に患者の氏名および追加情報がない |
| DCM | | 111190 | Flash doesn't include technologist identification | 患者情報等欄に技師名がない |
| DCM | | 111186 | Flash is illegible, does not fit, or is lopsided | 患者情報等欄が読みにくい、大きさがあっていない、あるいは傾いている |
| DCM | | 111185 | Flash is not near edge of film | 患者情報等欄がフィルムの端にない |
| SRT | | F-01792 | Focal asymmetric breast tissue | 局所性非対称性乳房組織 |
| SRT | | P5-B3410 | Focal asymmetric density analysis | 局所性非対称性陰影 |
| DCM | | 111142 | Follow-up at short interval (1-11 months) | 短期間での経過観察 (1 - 11 ヶ月) (F) |
| SRT | | M-44140 | Foreign body (reaction) | 異物反応 |
| SRT | | M-83153 | Glycogen-rich carcinoma | グリコーゲンに富む癌 |
| SRT | | M-95800 | Granular cell tumor | 顆粒細胞腫 |
| DCM | | 111208 | Grid artifact(s) | グリッドのアーチファクト |
| SRT | | F-01772 | Grouped calcification distribution | 集簇性 |
| SRT | | D7-90420 | Gynecomastia | 女性化乳房 |
| SRT | | M-75500 | Hamartoma | 過誤腫 |
| SRT | | M-91200 | Hemangioma | 血管腫 |
| SRT | | D3-F0620 | Hemangioma of subcutaneous tissue | 非実質性皮下組織血管腫 |
| SRT | | M-91220 | Hemangioma - venous | 静脈性血管腫 |
| SRT | | M-91501 | Hemangiopericytoma | 血管周皮腫 |
| SRT | | F-0176F | Heterogeneous calcification | 不均一なあるいは多形性の |
| SRT | | F-01713 | Heterogeneously dense | 不均一高濃度 |
| SRT | | F-01751 | High density lesion | 高濃度 |
| DCM | | 111145 | Histology using core biopsy | コア針生検 (H) |
| SRT | | M-96503 | Hodgkin's disease (lymphoma) | ホジキン病 |
| DCM | | 111026 | Horizontal Pixel Spacing | 水平方向ピクセル間隔 |
| SRT | | A-16016 | ID Plate | IDプレート |
| DCM | | 111027 | Image Laterality | 画像の左右差 |
| DCM | | 111028 | Image Library | 画像ライブラリ |
| DCM | | 111101 | Image Quality | 画像の品質 |
| SRT | | P5-B3408 | Image quality analysis | 画像の品質解析 |
| DCM | | 111029 | Image Quality Rating | 画質のランク付 |
| DCM | | 111030 | Image Region | 画像領域 |
| DCM | | 111031 | Image View | 画像表示用符号変換系列 |
| DCM | | 111032 | Image View Modifier | 画像表示用符号系列 |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning Japanese Language |
|--------------------------|-----------------------|------------|---|--------------------------------|
| SRT | | A-04010 | Implant | インプラント |
| SRT | | F-0172B | Implant revised since previous mammogram | インプラントの修正 |
| DCM | | 111033 | Impression Description | インプレッションの記載 |
| DCM | | 111196 | Inadequate compression | 圧迫不良 |
| DCM | | 111219 | Inappropriate image processing | 現像機の故障 |
| SRT | | F-01726 | Increase in number of calcifications | 石灰化の数の増加 |
| SRT | | M-02520 | Increase in size | サイズの増大 |
| SRT | | F-01744 | Indistinct lesion | 境界不明瞭 |
| SRT | | F-01776 | Individual Calcification | 個々の石灰化 |
| DCM | | 111233 | Individual Impression / Recommendation Analysis | 個々のインプレッション / 推奨の解析 |
| DCM | | 111034 | Individual Impression/Recommendation | 個々のインプレッション / 推奨 |
| SRT | | D7-90452 | Infarction of breast | 梗塞：乳腺の梗塞 |
| SRT | | M-40000 | Inflammation | 感染 |
| SRT | | M-85303 | Inflammatory carcinoma | 炎症性乳癌 |
| DCM | | 111206 | Insufficient implant displacement incorrect | インプラントの圧排不十分 |
| DCM | | 111341 | Intraductal carcinoma, high grade | 非浸潤性乳管癌：DCIS |
| SRT | | T-C4351 | Intra-mammary lymph node | 乳房内リンパ節 |
| SRT | | M-82013 | Invasive cribriform carcinoma | 浸潤性篩状癌 |
| SRT | | M-85003 | Infiltrating duct carcinoma | 浸潤性乳管癌 |
| SRT | | M-85203 | Invasive lobular carcinoma | 浸潤性小葉癌 |
| SRT | | G-A402 | Irregular | 不整形 |
| SRT | | A-1016B | J Wire | Jワイヤー |
| SRT | | M-90300 | Juvenile fibroadenoma | 若年性線維腺腫 |
| DCM | | 111277 | Juvenile papillomatosis | 若年性乳頭腫症 |
| SRT | | M-82040 | Lactating adenoma | 授乳性腺腫 |
| SRT | | F-01764 | Large rod-like calcification | 大きな桿状 |
| SRT | | T-04030 | Left breast | 左：左乳房 |
| SRT | | M-88900 | Leiomyoma | 平滑筋腫 |
| SRT | | M-88903 | Leiomyosarcoma | 平滑筋肉腫 |
| DCM | | 111035 | Lesion Density | 病変の濃度 |
| SRT | | F-01728 | Less defined | より不明瞭になってきた |
| DCM | | 111318 | Leukemic infiltration | 白血病浸潤 |
| SRT | | F-01771 | Linear calcification distribution | 線状 |
| SRT | | M-83143 | Lipid-rich (lipid-secreting) carcinoma | 脂肪に富む（脂質分泌）癌 |
| SRT | | M-88500 | Lipoma | 脂肪腫 |
| SRT | | G-A640 | Lobular | 分葉状 |
| SRT | | D7-F0A02 | Lobular carcinoma in situ of breast | 非浸潤性小葉癌：LCIS |
| SRT | | F-01753 | Low density (not containing fat) lesion | 低濃度（脂肪を含まない） |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning Japanese Language |
|--------------------------|-----------------------|------------|--|----------------------------------|
| SRT | | T-04003 | Lower inner quadrant of breast | 内下部：乳房の内下部 1 / 4 (B領域) |
| SRT | | T-04005 | Lower outer quadrant of breast | 外下部：乳房の外下部 1 / 4 (D領域) |
| SRT | | F-01766 | Lucent-centered calcification | 中心透亮性 |
| SRT | | R-102D6 | Magnification views | 拡大撮影 (M) |
| DCM | | 111334 | Malignant melanoma of nipple | 乳頭の悪性黒色腫 |
| SRT | | D7-90370 | Mammary duct ectasia | 乳管拡張症 |
| SRT | | F-01791 | Mammographic breast mass | 腫瘤 |
| DCM | | 111036 | Mammography CAD Report | マンモグラフィCADのレポート |
| DCM | | 111238 | Mammography Quality Control Manual 1999, ACR | マンモグラフィ品質管理マニュアル 1999, ACR |
| DCM | | 111037 | Margins | 辺縁 |
| DCM | | 111216 | Mechanical failure | 機械の故障 |
| SRT | | M-85103 | Medullary carcinoma | 髄様癌 |
| DCM | | 111284 | Microglandular adenosis | 微小腺管腺症 |
| SRT | | F-01742 | Microlobulated lesion | 微細分葉状 |
| SRT | | R-4081A | Middle | 中央の |
| SRT | | F-01765 | Milk of calcium calcification | 石灰乳 |
| DCM | | 111200 | MLO Evidence of motion blur | 内外斜位方向撮影 体動によるブレがある |
| DCM | | 111201 | MLO Inframammary fold is not open | 内外斜位方向撮影 乳房下溝が開いていない |
| DCM | | 111197 | MLO Insufficient pectoral muscle | 内外斜位方向撮影 胸筋の描出が不十分 |
| DCM | | 111198 | MLO No fat is visualized posterior to fibroglandular tissues | 内外斜位方向撮影 乳腺後隙の脂肪が見られない |
| DCM | | 111199 | MLO Poor separation of deep and superficial breast tissues | 内外斜位方向撮影 乳房組織の深部および表在乳腺の分離が不良である |
| UCUM | | mo | Month | 月 |
| SRT | | F-01729 | More defined | より明瞭になってきた |
| DCM | | 111210 | Motion blur | 患者の体動 |
| SRT | | M-84803 | Mucinous adenocarcinoma (Colloid carcinoma) | 粘液癌 |
| DCM | | 111283 | Myofibroblastoma | 筋線維芽腫 |
| DCM | | 111144 | Needle localization and biopsy | 針留置による位置決めと生検 (L) |
| SRT | | D0-F035F | Neoplasm of mammary skin | 乳房皮膚の新生物 |
| SRT | | M-95400 | Neurofibroma | 神経線維腫 |
| SRT | | F-01721 | New finding | 新しい所見 |
| SRT | | T-04100 | Nipple | 乳頭 |
| SRT | | D7-90554 | Nipple retraction | 乳頭陥凹 |
| DCM | | 111245 | No algorithms succeeded; without findings | 全てのアルゴリズムが失敗；所見なし |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning Japanese Language |
|--------------------------|-----------------------|------------|---|--------------------------------|
| DCM | | 111213 | No image | 画像なし |
| SRT | | F-01723 | No significant changes in the finding | 所見上、著変なし |
| SRT | | M-95913 | Non-Hodgkin's lymphoma | 非ホジキンリンパ腫 |
| DCM | | 111102 | Non-lesion | 病変がない |
| DCM | | 111140 | Normal interval follow-up | 通常間隔での経過観察 (N) |
| SRT | | M-02000 | Normal shape | 正常乳頭 |
| DCM | | 111244 | Not all algorithms succeeded; with findings | 全てのアルゴリズムが成功した訳ではない ; 所見あり |
| DCM | | 111243 | Not all algorithms succeeded; without findings | 全てのアルゴリズムが成功した訳ではない ; 所見なし |
| DCM | | 111225 | Not Attempted | 未施行 |
| DCM | | 111152 | Not for Presentation: Rendering device expected not to present | 提示の必要なし : 表示装置提示の必要なし |
| DCM | | 111038 | Number of calcifications | 石灰化の数 |
| DCM | | 111039 | Object type | 対象のタイプ |
| SRT | | F-01743 | Obscured lesion | 評価困難 |
| DCM | | 111322 | Occult carcinoma presenting with axillary lymph node metastases | 腋窩リンパ節転移を伴う潜伏癌 |
| DCM | | 111138 | Old films for comparison | 比較のための以前のフィルム (O) |
| SRT | | A-00D7B | Opaque marker | 不透明マーカー |
| DCM | | 111040 | Original Source | 情報源 |
| SRT | | M-91803 | Osteogenic sarcoma | 骨肉腫 |
| DCM | | 111220 | Other failure | 他の故障 |
| DCM | | 111175 | Other Marker | 他のマーカー |
| DCM | | 111041 | Outline | 輪郭 |
| DCM | | 111212 | Over exposed | 露光過多 |
| DCM | | 111234 | Overall Impression / Recommendation Analysis | 全体のインプレッション / 推奨の解析 |
| SRT | | M-02120 | Ovoid shape (Oval) | 楕円形 |
| SRT | | A-11101 | Cardiac Pacemaker | ペースメーカー |
| SRT | | A-10042 | Compression paddle | 圧縮パドル |
| SRT | | M-85403 | Paget's disease, mammary (of the nipple) | 乳頭のパジエット病 |
| SRT | | M-80503 | Papillary carcinoma (invasive) | 浸潤性乳頭癌 |
| SRT | | M-80500 | Papilloma | 乳頭腫 |
| DCM | | 111223 | Partially Succeeded | 部分的成功 |
| DCM | | 111042 | Pathology | 病理 |
| DCM | | 111043 | Patient Orientation Column | 患者情報 行 |
| DCM | | 111044 | Patient Orientation Row | 患者情報 列 |
| DCM | | 111045 | Pectoral Muscle Outline | 胸筋輪郭 |
| DCM | | 111046 | Percent Glandular Tissue | 乳腺組織の割合 (%) |
| SRT | | M-90201 | Phyllodes tumor | 良性葉状腫瘍 |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning Japanese Language |
|--------------------------|-----------------------|------------|--|--------------------------------|
| SRT | | M-90203 | Phyllodes tumor, malignant | 悪性葉状腫瘍 |
| SRT | | M-97313 | Plasmacytoma | 形質細胞腫 |
| SRT | | M-89400 | Pleomorphic adenoma | 混合腫瘍 (多形腺腫) |
| DCM | | 111209 | Positioning | ポジショニング |
| SRT | | R-404CE | Posterior | 後方の |
| DCM | | 111151 | Presentation Optional: Rendering device may present | 提示はオプションである : 表示装置の提示は自由 |
| DCM | | 111150 | Presentation Required: Rendering device is expected to present | 提示が必要である : 表示装置の提示必要 |
| DCM | | 111047 | Probability of cancer | 癌の可能性 |
| DCM | | 111292 | Pseudoangiomatous stromal hyperplasia | 偽血管腫様間質過形成 |
| SRT | | F-01767 | Punctate calcification | 点状 |
| DCM | | 111048 | Quadrant location | 位置表示 (四分の一) |
| DCM | | 111049 | Qualitative Difference | 質的相違 |
| DCM | | 111050 | Quality Assessment | 品質評価 |
| DCM | | 111051 | Quality Control Standard | 品質管理の基準 |
| DCM | | 111052 | Quality Finding | 品質に関する所見 |
| SRT | | M-78731 | Radial scar | 放射状硬化性病変 (放射状瘢痕) |
| DCM | | 111053 | Recommended Follow-up | 経過観察の推奨 |
| DCM | | 111054 | Recommended Follow-up Date | 推奨される経過観察日 |
| DCM | | 111055 | Recommended Follow-up Interval | 推奨される経過観察間隔 |
| SRT | | F-01773 | Regional calcification distribution | 領域性 |
| SRT | | F-0172A | Removal of implant since previous mammogram | インプラントの除去 |
| DCM | | 111056 | Rendering Intent | 結果表示するかどうか |
| SRT | | T-04020 | Right breast | 右 : 右乳房 |
| SRT | | M-02100 | Round shape | 円形 |
| SRT | | M-78060 | Scar tissue | 瘢痕組織 |
| SRT | | F-01712 | Scattered fibroglandular densities | 乳腺散在 |
| SRT | | M-74220 | Sclerosing adenosis | 硬化性腺症 |
| DCM | | 111057 | Scope of Feature | 特徴の範囲 |
| SRT | | M-85023 | Secretory (juvenile) carcinoma of the breast | 分泌癌 (若年性癌) : 分泌性乳癌 (若年性乳癌) |
| SRT | | F-01774 | Segmental calcification distribution | 区域性 |
| DCM | | 111099 | Selected region | 選択された領域 |
| DCM | | 111058 | Selected Region Description | 選択領域の記述 |
| SRT | | M-020F9 | Shape | 形状 |
| DCM | | 111059 | Single Image Finding | 1画像の所見 |
| SRT | | D0-00050 | Skin lesion | 皮膚病変 |
| SRT | | F-01799 | Skin retraction of breast | 乳房の皮膚陥凹 |
| SRT | | F-0179A | Skin thickening of breast | 乳房の皮膚肥厚 |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning Japanese Language |
|--------------------------|-----------------------|------------|--|------------------------------------|
| DCM | | 111218 | Software failure | ソフトウェアの故障 |
| SRT | | P5-B3402 | Spatial collocation analysis | 空間的なデータ対応付け解析 |
| SRT | | P5-B3404 | Spatial proximity analysis | 空間的なデータ近接判定解析 |
| SRT | | F-01745 | Spiculated lesion | スピキュラを伴う |
| SRT | | R-102D7 | Spot compression | スポット圧迫撮影 (S) |
| DCM | | 111136 | Spot magnification view(s) | 拡大スポット撮影 (V) |
| DCM | | 111340 | Squamous cell carcinoma of the nipple | 乳頭の扁平上皮癌 |
| SRT | | A-13600 | Staple | ステープル |
| DCM | | 111060 | Study Date | 検査日 |
| DCM | | 111061 | Study Time | 検査時刻 |
| SRT | | F-0178D | Subareolar position | 乳輪下 |
| DCM | | 111222 | Succeeded | 成功 |
| DCM | | 111062 | Successful Analyses | 解析の成功 |
| DCM | | 111063 | Successful Detections | 検出の成功 |
| DCM | | 111146 | Suggestive of malignancy - take appropriate action | 悪性-適切な処置が必要 (T) |
| DCM | | 111065 | Summary of Analyses | 解析の要約 |
| DCM | | 111064 | Summary of Detections | 検出の要約 |
| SRT | | A-13500 | Suture | 縫合 |
| DCM | | 111155 | Target content items are related contra-laterally | Target content itemsは対側のそれらに関連している |
| DCM | | 111154 | Target content items are related spatially | Target content itemsは空間的に関連している |
| DCM | | 111153 | Target content items are related temporally | Target content itemsは時間的に関連している |
| DCM | | 111194 | Technical factors missing | 撮影条件がない |
| SRT | | P5-B3406 | Temporal correlation | 経時的相関 |
| SRT | | F-01798 | Trabecular thickening of breast | 乳房の梁柱の肥厚 |
| SRT | | M-82113 | Tubular adenocarcinoma | 管状癌 |
| SRT | | M-82110 | Tubular adenoma | 管状腺腫 |
| SRT | | F-01797 | Tubular density | 管状影 |
| SRT | | P5-B0000 | Diagnostic ultrasonography | 超音波検査手技 (U) |
| DCM | | 111211 | Under exposed | 露光不足 |
| DCM | | 111221 | Unknown failure | 原因不詳の故障 |
| DCM | | 111176 | Unspecified | 非特定の物質 |
| DCM | | 111235 | Unusable - Quality renders image unusable | 使用不可-画像構成の品質は使用不可である |
| SRT | | T-04002 | Upper inner quadrant of breast | 内上部：乳房の内上部 1 / 4 (A領域) |
| SRT | | T-04004 | Upper outer quadrant of breast | 外上部：乳房の外上部 1 / 4 (C領域) |

| Coding Scheme Designator | Coding Scheme Version | Code Value | Code Meaning English Language | Code Meaning Japanese Language |
|--------------------------|-----------------------|------------|---|--------------------------------|
| DCM | | 111236 | Usable - Does not meet the quality control standard | 使用可-品質管理の基準に達していない |
| DCM | | 111237 | Usable - Meets the quality control standard | 使用可-品質管理の基準に達している |
| SRT | | F-0176B | Vascular calcification | 血管 |
| DCM | | 111066 | Vertical Pixel Spacing | 垂直方向のピクセル間隔 |
| DCM | | 111179 | View and Laterality Marker does not have approved codes | 鉛マーカーはFDAのコードがない |
| DCM | | 111178 | View and Laterality Marker does not have both view and laterality | 鉛マーカーは撮影方向と左右の表示がない |
| DCM | | 111183 | View and Laterality Marker is incorrect | 鉛マーカーは正しい位置にない |
| DCM | | 111177 | View and Laterality Marker is missing | 鉛マーカーがみられない |
| DCM | | 111180 | View and Laterality Marker is not near the axilla | 鉛マーカーは腋窩の近くでない |
| DCM | | 111184 | View and Laterality Marker is off image | 鉛マーカーがフィルム外である |
| DCM | | 111182 | View and Laterality Marker is partially obscured | 鉛マーカーは一部覆い隠されている |
| DCM | | 111298 | Virginal hyperplasia | 若年性過形成 |
| UCUM | | wk | Week | 週 |
| UCUM | | a | Year | 年 |

G English Code Meanings of Selected Codes (Normative)

Table G-1. English Code Meanings of Selected Codes

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| UCUM | 1 | unary |
| | | no units |
| UCUM | {ratio} | ratio |
| SRT | C-10520 | Carbon dioxide |
| | | Carbon dioxide gas |
| SRT | C-21047 | Ethanol |
| | | Ethyl alcohol |
| SRT | C-81100 | Hypotensive agent |
| | | Antihypertensive agent |
| | | Antihypertensive drug |
| SRT | C-50434 | Thrombolytic agent |
| | | Fibrinolytic agent |
| SRT | C-A7440 | Injectable fibrinolysin |
| | | Injectable plasmin |
| SRT | C-B0300 | Contrast agent |
| | | Radiographic contrast agent |
| SRT | C-B1091 | Iodohippurate I ¹³¹ sodium |
| | | Iodine ¹³¹ hippuran |
| SRT | C-B1109 | Iodine ¹³¹ polyvinylpyrrolidone |
| | | Iodine ¹³¹ PVP |
| SRT | C-B1225 | Technetium Tc ⁹⁹ N-substituted iminodiacetate |
| | | Tc ⁹⁹ labeled HIDA |
| SRT | D3-40208 | Congenital pulmonary arteriovenous fistula |
| | | Congenital coronary artery fistula to pulmonary artery |
| SRT | D4-33142 | Pulmonary artery conduit |
| | | Congenital pulmonary artery conduit |
| SRT | D4-33512 | Pulmonary vein confluence |
| | | Congenital pulmonary vein confluence |
| SRT | D4-33514 | Pulmonary venous atrium |
| | | Congenital pulmonary venous atrium |
| SRT | D4-33516 | Systemic venous atrium |
| | | Congenital systemic venous atrium |
| SRT | R-10206 | Antero-posterior |
| | | AP |
| SRT | R-40888 | Postero-anterior |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|-------------------------------|
| | | PA |
| SRT | R-10246 | Oblique axial |
| | | Oblique caudo-cranial |
| | | Oblique cranio-caudal |
| | | Oblique transaxial |
| | | Off-axial |
| | | Off-axial projection |
| SRT | R-10224 | Medial-lateral |
| | | Medio-lateral |
| SRT | R-10230 | Lateral-medial |
| | | Latero-medial |
| SRT | R-10232 | Right lateral projection |
| | | Left to right beam projection |
| SRT | R-10236 | Left lateral projection |
| | | Right to left beam projection |
| SRT | R-10242 | caudad |
| | | caudal projection |
| | | cranio-caudal projection |
| SRT | R-10244 | cephalad |
| | | cranial projection |
| | | caudo-cranial projection |
| | | from below |
| SRT | R-4087B | transforamenal |
| | | optic foramen projection |
| SRT | G-A100 | Right |
| | | Right lateral |
| SRT | G-A101 | Left |
| | | Left lateral |
| SRT | G-A102 | Bilateral |
| | | Right and left |
| SRT | G-A103 | Unilateral |
| | | One-sided |
| SRT | R-404CC | Anterior |
| | | Ventral |
| SRT | R-404CE | Posterior |
| | | Dorsal |
| SRT | G-A107 | Cephalic |
| | | Cephalad |
| | | Rostral |
| | | Cranial |
| SRT | G-A108 | Caudal |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| | | Caudad |
| SRT | R-404D5 | Medial |
| SRT | G-A10A | Mediolateral |
| | | Midline |
| SRT | R-40941 | External |
| | | Outer |
| SRT | R-40819 | Internal |
| | | Inner |
| SRT | R-4094A | Inferior |
| | | Lower |
| SRT | R-42191 | Superior |
| | | Upper |
| SRT | G-A138 | Coronal |
| | | Frontal |
| SRT | G-A140 | Deep |
| | | Profundis |
| SRT | R-102CD | Sagittal Projection |
| | | Lateral Projection |
| SRT | G-4022 | Contact with |
| | | Direct contact |
| SRT | G-A170 | Hilar |
| | | Hilus |
| SRT | G-A174 | Edge |
| | | Along edge |
| SRT | G-D17D | Intracutaneous route |
| | | Intradermal route |
| SRT | G-D140 | Oral route |
| | | Peroral route |
| SRT | G-D164 | Vaginal route |
| | | Per vagina |
| SRT | P1-05535 | Catheterization |
| | | Insertion of catheter |
| SRT | P1-30350 | Atherectomy |
| | | Removal of atherosclerotic plaque from artery |
| SRT | T-15460 | Wrist joint |
| | | Joint of Wrist |
| SRT | T-32000 | Endo-cardiac |
| | | Intra-cardiac |
| SRT | T-41000 | Endo-arterial |
| | | Intra-arterial |
| SRT | T-46010 | Innominate artery |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---------------------------------------|
| | | Brachiocephalic artery |
| | | Brachiocephalic trunk |
| SRT | T-48170 | Internal jugular vein |
| | | Vena jugularis interna |
| SRT | T-48620 | Innominate vein |
| | | Brachiocephalic vein |
| SRT | T-48810 | Portal vein |
| | | Vena portae |
| SRT | T-D4450 | Omental bursa |
| | | Lesser peritoneal sac |
| LN | 33068-8 | Thoracic Area |
| | | FTA |
| LN | 33070-4 | Inner Orbital Diameter |
| | | IOD |
| LN | 11727-5 | Estimated Weight |
| | | EFW |
| LN | 11948-7 | Fetal Heart Rate |
| | | HR |
| LN | 11778-8 | Estimated Date of Delivery |
| | | EDD |
| LN | 11955-2 | Last Menstrual Period |
| | | LMP |
| LN | 11979-2 | Abdominal Circumference |
| | | AC |
| LN | 11818-2 | Anterior-Posterior Abdominal Diameter |
| | | APAD |
| LN | 11820-8 | Biparietal Diameter |
| | | BPD |
| LN | 11824-0 | BPD area corrected |
| | | BPDa |
| LN | 11963-6 | Femur Length |
| | | FL |
| LN | 11984-2 | Head Circumference |
| | | HC |
| LN | 11851-3 | Occipital-Frontal Diameter |
| | | OFD |
| LN | 11988-3 | Thoracic Circumference |
| | | TC |
| LN | 11862-0 | Tranverse Abdominal Diameter |
| | | TAD |
| LN | 11863-8 | Trans Cerebellar Diameter |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| | | TCD |
| | | TDC |
| LN | 11864-6 | Transverse Thoracic Diameter |
| | | TTD |
| LN | 11629-3 | Outer Orbital Diameter |
| | | OOD |
| LN | 11726-7 | Peak Velocity |
| | | Peak Systolic Velocity |
| SRT | G-A188 | Mid-Longitudinal |
| | | Mid |
| SRT | T-45170 | Carotid Bulb |
| | | Carotid Sinus |
| LN | 8277-6 | Body Surface Area |
| | | BSA |
| LN | 29462-9 | Pulmonary-to-Systemic Shunt Flow Ratio |
| | | Qp/Qs |
| SRT | R-42047 | Antegrade Direction |
| | | Antegrade Flow |
| SRT | R-42E61 | Retrograde Direction |
| | | Regurgitant Flow |
| LN | 11957-8 | Crown Rump Length |
| | | CRL |
| SRT | P1-48501 | Breast implantation |
| | | Implant procedure |
| SRT | P1-48520 | Removal of breast implant |
| | | Explantation |
| SRT | D0-00165 | Weal |
| | | Hives |
| SRT | D7-90010 | Disorder of breast implant |
| | | Breast implant problem |
| SRT | D7-90530 | Breast lump |
| | | Lump or thickening |
| SRT | D7-90560 | Peau d'orange surface of breast |
| | | Peau d'orange |
| SRT | D7-90565 | Bloody nipple discharge |
| | | Bloody discharge |
| SRT | DD-66A67 | Hemorrhage postprocedure |
| | | Abnormal bleeding |
| SRT | DD-67700 | Infection as complication of medical care |
| | | Infection |
| SRT | F-01BF8 | Ultrasound scan normal |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| | | Normal; the finding is not seen sonographically |
| SRT | F-01E06 | Indeterminate result |
| | | Inconclusive |
| SRT | F-02B9B | Nottingham Combined Grade cannot be determined |
| | | GX - grade cannot be assessed |
| SRT | F-8A057 | Calcification of breast |
| | | Calcifications |
| SRT | F-8A074 | Discoloration of skin of breast |
| | | Redness of skin |
| SRT | F-8A09C | Nipple problem |
| | | Nipple abnormality |
| SRT | F-A2632 | Persistent pain following procedure |
| | | Unusual pain |
| SRT | F-A558A | Vasovagal syncope |
| SRT | G-F616 | Nottingham Combined Grade I: 3-5 points |
| | | G1 - Low combined histologic grade (favorable) |
| SRT | G-F617 | Nottingham Combined Grade II: 6-7 points |
| | | G2 - Intermediate combined histo grade (moderately favorable) |
| SRT | G-F618 | Nottingham Combined Grade III: 8-9 points |
| | | G3 - High combined histologic grade (unfavorable) |
| SRT | M-78280 | Surgical scar |
| | | Post-surgical scar |
| SRT | P1-03106 | Computed tomography guided biopsy |
| | | CT guided |
| SRT | P1-03107 | Magnetic resonance imaging guided biopsy |
| | | MRI guided |
| SRT | P1-03115 | Ultrasound guided biopsy |
| | | Ultrasound guided |
| SRT | P1-48011 | Pre-biopsy localization of breast lesion |
| | | Localization for surgical biopsy |
| SRT | P1-48142 | Diagnostic aspiration of breast cyst |
| | | Cyst aspiration |
| SRT | P1-48145 | Fine needle aspiration of breast |
| | | FNA - Fine needle aspiration |
| SRT | P1-48304 | Core needle biopsy of breast |
| | | Core biopsy |
| SRT | P1-4830F | Breast - surgical biopsy |
| | | Surgical biopsy |
| SRT | P2-4A000 | Examination of breast |
| | | Clinical breast exam |
| SRT | P5-00032 | Diagnostic radiography, stereotactic localization |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|--|
| | | Stereotactic |
| SRT | P5-40030 | Specimen radiography of breast |
| | | Specimen imaging |
| SRT | P5-D0042 | Radionuclide localization of tumor, limited area |
| | | Scintimammography |
| SRT | R-20099 | O/E - axillary lymphadenopathy |
| | | Large axillary lymph nodes |
| SRT | R-207D7 | O/E - Breast lump palpated |
| | | Palpable abnormality |
| SRT | R-40FB9 | Before procedure |
| | | Pre- |
| SRT | R-41DDC | High risk tumor |
| | | High risk |
| SRT | R-422A4 | After procedure |
| | | Follow-up |
| SRT | R-101BA | vessel lumen cross sectional area reduction |
| | | lumen area stenosis |
| SRT | R-101BB | vessel lumen diameter reduction |
| | | lumen diameter stenosis |
| SRT | P5-B0700 | Ultrasonic guidance procedure |
| | | Ultrasound guided |
| SRT | F-01711 | Almost entirely fat |
| | | Almost entirely fat (< = 10% fibroglandular) |
| SRT | F-01712 | Scattered fibroglandular densities |
| | | Scattered fibroglandular tissue (11% - 50% fibroglandular) |
| SRT | F-01713 | Heterogeneously dense |
| | | Heterogeneously dense (51% - 75% fibroglandular) |
| SRT | F-01714 | Extremely dense |
| | | Extremely dense (greater than 75% fibroglandular) |
| SRT | F-0176F | Heterogeneous calcification |
| | | Coarse heterogeneous calcification |
| SRT | F-01792 | Focal asymmetric breast tissue |
| | | Focal asymmetry |
| SRT | F-01793 | Asymmetric breast tissue |
| | | Global asymmetry |
| SRT | F-01797 | Tubular density |
| | | Asymmetric tubular structure/solitary dilated duct |
| SRT | M-85002 | Intraductal carcinoma, non-infiltrating |
| | | DCIS |
| SRT | P0-009B4 | Evaluation procedure |
| | | Clinical evaluation |

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|------------|---|
| SRT | P5-D0061 | Radioisotope scan of lymphatic system |
| | | Lymphoscintigraphy |
| SRT | A-25612 | Embolization coil |
| | | Gianturco coil |
| SRT | T-46010 | Brachiocephalic artery |
| | | Brachiocephalic trunk |
| | | Innominate artery |
| DCM | 111046 | Percent Fibroglandular Tissue |
| | | Percent Glandular Tissue |
| SRT | R-4081A | Median |
| | | Middle |
| LN | 20280-4 | Pressure Half Time |
| | | Pressure Half Time by US.calculated |
| LN | 59089-3 | Thickness |
| | | ROI Thickness by US |
| LN | 59090-1 | Internal Dimension |
| | | ROI Internal Dimension by US |
| LN | 20247-3 | Peak Gradient [Pressure] |
| | | Peak Gradient [Pressure] by US.calculated |
| LN | 20256-4 | Mean Gradient [Pressure] |
| | | Mean Gradient [Pressure] by Doppler |
| SRT | R-1007B | Left ventricle mid inferolateral segment |
| | | Left Ventricle Posterior Wall |
| SRT | R-40B11 | Ventricular Ejection |
| | | S-wave |
| | | s-prime |
| SRT | R-40B1C | Diastolic Rapid Inflow |
| | | E-wave |
| | | e-prime |
| SRT | F-32030 | Atrial Systole |
| | | A-wave |
| | | a-prime |

H Code Meanings of LOINC Codes in DCMR

Table H-1. Code Meanings of LOINC Codes

| Code Value | Code Meaning |
|------------|--------------------------------------|
| 10160-0 | History of Medication Use |
| 11329-0 | History |
| 11450-4 | Problem List |
| 11522-0 | Echocardiography Report |
| 11525-3 | Ultrasound Obstetric and Gyn Report |
| 11528-7 | Radiology Report |
| 11538-6 | CT Chest Report |
| 11539-4 | CT Head Report |
| 11540-2 | CT Abdomen Report |
| 11541-0 | MRI Head Report |
| 11612-9 | Aborta |
| 11623-6 | Fourth Quadrant Diameter |
| 11624-4 | First Quadrant Diameter |
| 11625-1 | Third Quadrant Diameter |
| 11626-9 | Second Quadrant Diameter |
| 11629-3 | Outer Orbital Diameter |
| 11636-8 | Live Births |
| 11653-3 | End Diastolic Velocity |
| 11665-7 | Minimum Diastolic Velocity |
| 11692-1 | Time averaged peak velocity |
| 11726-7 | Peak Velocity |
| 11726-7 | Peak Velocity |
| 11727-5 | Estimated Weight |
| 11732-5 | EFW by AC, BPD, FL, HC, Hadlock 1985 |
| 11734-1 | EFW by AC, BPD, FL, Hadlock 1984 |
| 11735-8 | EFW by AC, BPD, FL, Hadlock 1985 |
| 11738-2 | EFW by AC, BPD, Hadlock 1984 |
| 11739-0 | EFW by AC and BPD, Shepard 1982 |
| 11746-5 | EFW by AC, FL, HC, Hadlock 1985 |
| 11750-7 | EFW by AC, FL, Hadlock 1984 |
| 11751-5 | EFW by AC, FL, Hadlcok 1985 |
| 11754-9 | EFW by AC, HC Hadlock 1984 |
| 11756-4 | EFW by AC, Campbell 1975 |
| 11767-1 | EFW percentile rank |
| 11778-8 | Estimated Date of Delivery |
| 11779-6 | EDD from LMP |
| 11780-4 | EDD from ovulation date |
| 11781-2 | EDD from average ultrasound age |

| Code Value | Code Meaning |
|------------|---------------------------------------|
| 11793-7 | Follicle Diameter |
| 11816-6 | Yolk Sac length |
| 11818-2 | Anterior-Posterior Abdominal Diameter |
| 11819-0 | Anterior-Posterior Trunk Diameter |
| 11820-8 | Biparietal Diameter |
| 11823-2 | Cephalic Index |
| 11824-0 | BPD area corrected |
| 11825-7 | Left Kidney width |
| 11827-3 | Right Kidney width |
| 11829-9 | Left Ovary Width |
| 11830-7 | Right Ovary Width |
| 11834-9 | Left Kidney length |
| 11836-4 | Right Kidney length |
| 11840-6 | Left Ovary Length |
| 11841-4 | Right Ovary Length |
| 11850-5 | Gestational Sac Diameter |
| 11851-3 | Occipital-Frontal Diameter |
| 11853-9 | Left Kidney thickness |
| 11855-4 | Right Kidney thickness |
| 11857-0 | Left Ovary Height |
| 11858-8 | Right Ovary Height |
| 11860-4 | Cisterna Magna |
| 11860-4 | Cisterna Magna length |
| 11862-0 | Tranverse Abdominal Diameter |
| 11863-8 | Trans Cerebellar Diameter |
| 11863-8 | Trans Cerebellar Diameter |
| 11864-6 | Transverse Thoracic Diameter |
| 11871-1 | FL/AC |
| 11872-9 | FL/BPD |
| 11873-7 | FL/HC |
| 11878-6 | Number of Fetuses by US |
| 11884-4 | Average Ultrasound Age |
| 11885-1 | Gestational Age by LMP |
| 11885-1 | Gestational Age by LMP |
| 11886-9 | Gestational Age by ovulation date |
| 11888-5 | Composite Ultrasound Age |
| 11889-3 | AC, Campbell 1975 |
| 11892-7 | AC, Hadlock 1984 |
| 11893-5 | AC, Jeanty 1984 |
| 11900-8 | BPD, Doubilet 1993 |
| 11901-6 | BPDa, Hadlock 1982 |
| 11902-4 | BPD, Hadlock 1984 |

| Code Value | Code Meaning |
|------------|--------------------------|
| 11903-2 | BPD, Hansmann 1985 |
| 11905-7 | BPD, Jeanty 1984 |
| 11906-5 | BPD, Kurtz 1980 |
| 11907-3 | BPD, Sabbagha 1978 |
| 11910-7 | CRL, Hadlock 1992 |
| 11911-5 | CRL, Hansmann 1985 |
| 11913-1 | CRL, Nelson 1981 |
| 11914-9 | CRL, Robinson 1975 |
| 11917-2 | CRL, Jeanty 1984 |
| 11918-0 | Fibula, Merz 1987 |
| 11920-6 | FL, Hadlock 1984 |
| 11921-4 | FL, Hansmann 1985 |
| 11922-2 | FL, Hohler 1982 |
| 11923-0 | FL, Jeanty 1984 |
| 11924-8 | FL, Merz 1987 |
| 11926-3 | Foot Length, Mercer 1987 |
| 11928-9 | GS, Hellman 1969 |
| 11929-7 | GS, Rempen 1991 |
| 11932-1 | HC, Hadlock 1984 |
| 11934-7 | HC, Jeanty 1984 |
| 11936-2 | Humerus, Jeanty 1984 |
| 11937-0 | Humerus, Merz 1987 |
| 11939-6 | Radius, Merz 1987 |
| 11941-2 | Tibia, Jeanty 1984 |
| 11944-6 | Ulna, Jeanty 1984 |
| 11945-3 | Ulna, Merz 1987 |
| 11947-9 | HC/AC |
| 11948-7 | Fetal Heart Rate |
| 11955-2 | Last Menstrual Period |
| 11957-8 | Crown Rump Length |
| 11961-0 | Cervix Length |
| 11962-8 | Clavicle length |
| 11963-6 | Femur Length |
| 11964-4 | Fibula length |
| 11965-1 | Foot length |
| 11966-9 | Humerus length |
| 11967-7 | Radius length |
| 11968-5 | Tibia length |
| 11969-3 | Ulna length |
| 11976-8 | Ovulation date |
| 11977-6 | Para |
| 11979-2 | Abdominal Circumference |

| Code Value | Code Meaning |
|------------|---|
| 11984-2 | Head Circumference |
| 11988-3 | Thoracic Circumference |
| 11996-6 | Gravida |
| 12008-9 | Pulsatility Index |
| 12023-8 | Resistivity Index |
| 12144-2 | Systolic to Diastolic Velocity Ratio |
| 12145-9 | Endometrium Thickness |
| 12146-7 | Nuchal Fold thickness |
| 12164-0 | Left Ovary Volume |
| 12165-7 | Right Ovary Volume |
| 12170-7 | Width of Hemisphere |
| 12171-5 | Lateral Ventricular width |
| 17977-0 | Left Atrium Area A4C view |
| 17978-8 | Mitral Valve A-Wave Peak Velocity |
| 17985-3 | Left Atrium to Aortic Root Ratio |
| 17988-7 | Right Atrium Area A4C view |
| 17995-2 | Thoracic Aorta Coarctation Systolic Peak Instantaneous Gradient |
| 17996-0 | Aortic Valve Cusp Separation |
| 17998-6 | Aortic Valve Regurgitant Diastolic Deceleration Time |
| 18006-7 | Inferior Vena Cava Diameter |
| 18011-7 | Aortic Arch Diameter |
| 18012-5 | Ascending Aortic Diameter |
| 18013-3 | Descending Aortic Diameter |
| 18015-8 | Aortic Root Diameter |
| 18019-0 | Left Pulmonary Artery Diameter |
| 18020-8 | Main Pulmonary Artery Diameter |
| 18021-6 | Right Pulmonary Artery Diameter |
| 18026-5 | Left Ventricular End Diastolic Volume |
| 18030-7 | Tricuspid Valve A Wave Peak Velocity |
| 18031-5 | Tricuspid Valve E Wave Peak Velocity |
| 18035-6 | Mitral Regurgitation dP/dt derived from Mitral Reg. velocity |
| 18037-2 | Mitral Valve E-Wave Peak Velocity |
| 18038-0 | Mitral Valve E to A Ratio |
| 18040-6 | Mitral Valve E-F Slope by M-Mode |
| 18041-4 | Aortic Valve Ejection Time |
| 18043-0 | Left Ventricular Ejection Fraction by US |
| 18050-5 | Inferior Vena Cava % Collapse |
| 18051-3 | Left Ventricular Fractional Shortening |
| 18053-9 | Left Ventricle Posterior Wall % Thickening |
| 18054-7 | Interventricular Septum % Thickening |
| 18070-3 | Right Atrium Systolic Pressure |
| 18071-1 | Left Ventricular Isovolumic Relaxation Time |

| Code Value | Code Meaning |
|------------|---|
| 18076-0 | Left Ventricle Systolic Major Axis |
| 18077-8 | Left Ventricle Diastolic Major Axis |
| 18087-7 | Left Ventricle Mass |
| 18096-8 | Pulmonic valve Area by continuity |
| 18118-0 | LV Wall Motion Segmental Findings |
| 18139-6 | Stage |
| 18148-7 | Left Ventricular End Systolic Volume |
| 18152-9 | Left Ventricle Posterior Wall Diastolic Thickness |
| 18153-7 | Right Ventricle Anterior Wall Diastolic Thickness |
| 18154-5 | Interventricular Septum Diastolic Thickness |
| 18155-2 | Interventricular Septum to Posterior Wall Thickness Ratio |
| 18156-0 | Left Ventricle Posterior Wall Systolic Thickness |
| 18157-8 | Right Ventricular Anterior Wall Systolic Thickness |
| 18158-6 | Interventricular Septum Systolic Thickness |
| 18179-2 | Wall Segment |
| 18185-9 | Gestational Age |
| 18745-0 | Cardiac Catheterization Report |
| 18747-6 | CT Report |
| 18748-4 | Diagnostic Imaging Report |
| 18755-9 | MRI Report |
| 18756-7 | MRI Spine Report |
| 18757-5 | Nuclear Medicine Report |
| 18758-3 | PET Scan Report |
| 18760-9 | Ultrasound Report |
| 18782-3 | Findings |
| 18783-1 | Recommendations |
| 18785-6 | Indications for Procedure |
| 18834-2 | Previous Findings |
| 19005-8 | Impressions |
| 20167-3 | Acceleration Index |
| 20168-1 | Acceleration time |
| 20217-6 | Deceleration time |
| 20247-3 | Peak Gradient |
| 20295-2 | Time from Q wave to Pulmonic Valve Closes |
| 20352-1 | Time averaged mean velocity |
| 29436-3 | Left Ventricle Internal End Diastolic Dimension |
| 29438-9 | Left Ventricle Internal Systolic Dimension |
| 29449-6 | Mitral Valve Regurgitant Volume by Proximal Isovelocity Surface Area Method |
| 29450-4 | Pulmonary Vein Systolic Peak Velocity |
| 29451-2 | Pulmonary Vein Diastolic Peak Velocity |
| 29452-0 | Pulmonary Vein Systolic to Diastolic Ratio |
| 29453-8 | Pulmonary Vein Atrial Contraction Reversal Peak Velocity |

| Code Value | Code Meaning |
|------------|--|
| 29460-3 | Thoracic Aorta Coarctation Systolic Peak Velocity |
| 29462-9 | Pulmonary-to-Systemic Shunt Flow Ratio |
| 29463-7 | Patient Weight |
| 29463-7 | Patient weight |
| 29469-4 | Left Atrium Antero-posterior Systolic Dimension |
| 29471-0 | Hepatic Vein Systolic Peak Velocity |
| 29472-8 | Hepatic Vein Diastolic Peak Velocity |
| 29473-6 | Hepatic Vein Systolic to Diastolic Ratio |
| 29474-4 | Hepatic Vein Atrial Contraction Reversal Peak Velocity |
| 29486-8 | Left Atrial Appendage Peak Velocity |
| 29549-3 | Medications Administered |
| 33065-4 | Ectopic Pregnancies |
| 33066-2 | Estimated LMP by EDD |
| 33067-0 | Conception Date |
| 33068-8 | Thoracic Area |
| 33069-6 | Nuchal Translucency |
| 33070-4 | Inner Orbital Diameter |
| 33071-2 | Spine Length |
| 33072-0 | AC, ASUM 2000 |
| 33073-8 | AC, Hansmann1985 |
| 33074-6 | AC, Lessoway 1998 |
| 33075-3 | AC, Mertz 1988 |
| 33076-1 | AC, Shinozuka 1996 |
| 33077-9 | A-P Abdominal Diameter, Lessoway 1998 |
| 33078-7 | AxT, Shinozuka 1996 |
| 33079-5 | BPD, ASUM 1989 |
| 33080-3 | BPD, Lessoway 1998 |
| 33081-1 | BPD, Mertz 1988 |
| 33082-9 | BPD, Osaka 1989 |
| 33083-7 | BPD, Rempen 1991 |
| 33084-5 | BPD, Shinozuka 1996 |
| 33085-2 | BPD, Tokyo 1986 |
| 33086-0 | BPD-oi, Chitty 1997 |
| 33087-8 | BPD-oo, Chitty 1997 |
| 33088-6 | Clavicle length, Yarkoni 1985 |
| 33089-4 | CRL, ASUM 1991 |
| 33090-2 | CRL, ASUM 2000 |
| 33091-0 | CRL, Daya 1993 |
| 33092-8 | CRL, Jeanty 1982 |
| 33093-6 | CRL, Osaka 1989 |
| 33094-4 | CRL, Rempen 1991 |
| 33095-1 | CRL, Shinozuka 1996 |

| Code Value | Code Meaning |
|------------|---|
| 33096-9 | CRL, Tokyo 1986 |
| 33097-7 | Fibula, Jeanty 1983 |
| 33098-5 | FL, Chitty 1997 |
| 33099-3 | FL, Jeanty 1982 |
| 33100-9 | FL, Lessoway 1998 |
| 33101-7 | FL, Osaka 1989 |
| 33102-5 | FL, Shinozuka 1996 |
| 33103-3 | FL, Tokyo 1986 |
| 33104-1 | GS, Daya 1991 |
| 33105-8 | GS, Hansmann 1979 |
| 33106-6 | GS, Hansmann 1982 |
| 33107-4 | GS, Nyberg 1992 |
| 33108-2 | GS, Tokyo 1986 |
| 33109-0 | HC, ASUM 2000 |
| 33110-8 | HC measured, Chitty 1997 |
| 33111-6 | HC derived, Chitty 1997 |
| 33112-4 | HC, Hansmann 1985 |
| 33113-2 | HC, Jeanty 1982 |
| 33114-0 | HC, Lessoway 1998 |
| 33115-7 | HC Merz, 1988 |
| 33116-5 | Humerus Length, ASUM 2000 |
| 33117-3 | Humerus Length, Osaka 1989 |
| 33118-1 | Length of Vertebra, Tokyo 1986 |
| 33119-9 | OFD, ASUM 2000 |
| 33120-7 | OFD, Hansmann 1986 |
| 33121-5 | OFD, Lessoway 1998 |
| 33122-3 | IOD, Mayden 1982 |
| 33123-1 | IOD, Trout 1994 |
| 33124-9 | OOD, Mayden, 1982 |
| 33125-6 | OOD, Trout 1994 |
| 33126-4 | Radius, Jeanty 1983 |
| 33127-2 | Spine Length, Tokyo, 1989 |
| 33128-0 | TAD, Eriksen 1985 |
| 33129-8 | TAD Hansmann, 1979 |
| 33130-6 | TAD, Tokyo 1986 |
| 33131-4 | ThC, Chitkara 1987 |
| 33132-2 | TCD, Chitty 1994 |
| 33133-0 | TCD, Goldstein 1987 |
| 33134-8 | TCD, Hill 1990 |
| 33135-5 | TCD, Nimrod 1986 |
| 33136-3 | Transverse Thoracic Diameter, Hansmann 1985 |
| 33137-1 | Transverse Thoracic Diameter, Lessoway 1998 |

| Code Value | Code Meaning |
|------------|--|
| 33138-9 | Fetal Trunk Cross-Sectional Area, Osaka 1989 |
| 33139-7 | EFW by BPD, TTD, Hansmann 1986 |
| 33140-5 | EFW by BPD, FTA, FL, Osaka 1990 |
| 33141-3 | EFW1 by Shinozuka 1996 |
| 33142-1 | EFW2 by Shinozuka 1996 |
| 33143-9 | EFW3 by Shinozuka 1996 |
| 33144-7 | EFW by BPD, APAD, TAD, FL, Tokyo 1987 |
| 33145-4 | AC by GA, ASUM 2000 |
| 33146-2 | AC by GA, Hadlock 1984 |
| 33147-0 | AC (measured) by GA, Chitty 1994 |
| 33147-0 | AC (measured) by GA, Chitty 1994 |
| 33148-8 | AC by GA, Merz 1988 |
| 33149-6 | AC by GA, Shinozuka 1996 |
| 33150-4 | AxT by GA, Shinozuka 1996 |
| 33151-2 | BPD by GA, ASUM 2000 |
| 33152-0 | BPD outer-outer by GA, Chitty 1994 |
| 33153-8 | BPD by GA, Jeanty 1982 |
| 33154-6 | BPD by GA, Merz 1988 |
| 33155-3 | BPD by GA, Rempen 1991 |
| 33156-1 | BPD by GA, Shinozuka 1996 |
| 33157-9 | Cephalic Index, by GA Chitty 1994 |
| 33158-7 | Cephalic Index by GA, Hadlock 1981 |
| 33159-5 | CRL by GA, ASUM 2000 |
| 33160-3 | CRL by GA, Rempen1991 |
| 33161-1 | CRL, by GA, Shinozuka 1996 |
| 33162-9 | EFW by GA, Hadlock 1991 |
| 33163-7 | EFW by GA, Hansmann 1986 |
| 33164-5 | Fibula by GA, by GA Jeanty 1983 |
| 33165-2 | FL by GA, ASUM 2000 |
| 33166-0 | FL by GA, Hadlock 1984 |
| 33167-8 | FL by GA, Chitty 1994 |
| 33168-6 | FL by GA, Jeanty 1982 |
| 33169-4 | FL by GA, Merz 1988 |
| 33170-2 | FL by GA, Shinozuka 1996 |
| 33171-0 | GS by GA, Rempen 1991 |
| 33172-8 | HC by GA, ASUM 2000 |
| 33173-6 | HC by GA, Hadlock 1984 |
| 33174-4 | HC derived by GA, Chitty 1994 |
| 33175-1 | HC by GA, Jeanty 1982 |
| 33176-9 | HC by GA, Merz 1988 |
| 33177-7 | Humerus Length by GA, ASUM 2000 |
| 33178-5 | OFD by GA, ASUM 2000 |

| Code Value | Code Meaning |
|------------|---|
| 33179-3 | OFD by GA, Chitty 1994 |
| 33180-1 | Radius, by GA, Jeanty 1983 |
| 33181-9 | TCD by GA, Goldstein 1987 |
| 33182-7 | HC/AC by GA, Campbell 1977 |
| 33184-3 | FWP by GA, Williams, 1982 |
| 33185-0 | FWP by GA, Alexander, 1996 |
| 33186-8 | Male Singleton BWP by GA, Arbuckle 1993 |
| 33187-6 | Female Singleton BWP by GA, Arbuckle 1993 |
| 33188-4 | Female Twins BWP by GA, Arbuckle 1993 |
| 33189-2 | FWP by GA, Brenner 1976 |
| 33190-0 | FWP by GA, Hadlock 1985 |
| 33191-8 | APAD * TAD |
| 33192-6 | Uterus Volume |
| 33196-7 | Posterior Horn Lateral ventricular width |
| 33197-5 | Anterior Horn Lateral ventricular width |
| 33198-3 | BPD by GA, Hadlock 1984 |
| 33199-1 | Male Twins BWP by GA, Arbuckle 1993 |
| 33537-2 | AC, Jeanty 1982 |
| 33538-0 | BPD, Hansmann 1986 |
| 33539-8 | BPD, Jeanty 1982 |
| 33540-6 | CRL, Hansmann 1986 |
| 33541-4 | FL, Hansmann 1986 |
| 33542-2 | FL, Merz 1988 |
| 33543-0 | HC, Hansmann 1986 |
| 33544-8 | OFD, Hansmann 1985 |
| 33545-5 | BD, Jeanty 1982 |
| 33546-3 | AC (derived), Chitty 1994 |
| 33556-2 | BPD outer-inner by GA, Chitty 1994 |
| 33867-3 | Velocity ratio |
| 33868-1 | ICA/CCA velocity ratio |
| 33869-9 | Renal Artery/Aorta velocity ratio |
| 55107-7 | Addendum |
| 55108-5 | Patient Presentation |
| 55109-3 | Complications |
| 55110-1 | Conclusions |
| 55111-9 | Current Procedure Descriptions |
| 55112-7 | Summary |
| 55113-5 | Key Images |
| 55114-3 | Prior Procedure Descriptions |
| 55115-0 | Request |
| 55281-0 | Number of Fetuses |
| 55752-0 | Clinical Information |

| Code Value | Code Meaning |
|------------|---|
| 73568-8 | Communication of Critical Results |
| 73569-6 | Radiation Exposure and Protection Information |
| 8277-6 | Body Surface Area |
| 8302-2 | Patient Height |

Note

LN:33183-5 was previously included in this context group with a Code Meaning of "FWP by GA, Hadlock 1991", but is described in LOINC as "Fetal body weight growth percentile estimated from gestational age by method of Campbell 1991 (US)". Devices receiving LN:33183-5 may need to consult the Code Meaning value to determine whether the sender meant Hadlock 1991 or Campbell 1991. New codes have been defined to replace LN:33183-5 to resolve the potential ambiguity.

I Relationship of Endoscopy Procedures to Anatomic Regions (Informative)

Table I-1 provides examples of the common nomenclature for the type of endoscopy performed, and the code value suggested for use for anatomic region in CID 4040 "Endoscopy Anatomic Regions".

Table I-1. Examples of the Common Nomenclature for the Type of Endoscopy Performed

| Coding Scheme Designator | Code Value | Code Meaning | Example of the type of endoscopy for which this region is applicable (Informative) |
|--------------------------|------------|---------------------------------|--|
| SRT | T-D4000 | Abdomen | Laparoscopy |
| SRT | T-59490 | Anus, rectum and sigmoid colon | Rectosigmoidoscopy |
| SRT | T-60610 | Bile duct | |
| SRT | T-74000 | Bladder | Cystoscopy |
| SRT | T-DD123 | Bladder and urethra | Panendoscopy (urethrocystoscopy) |
| SRT | T-26000 | Bronchus | Bronchoscopy |
| SRT | T-83200 | Cervix | Colposcopy |
| SRT | T-D3000 | Chest | Thoracoscopy |
| SRT | T-DD163 | Esophagus, stomach and duodenum | Upper gastrointestinal endoscopy |
| SRT | T-AB200 | External auditory canal | Otoscopy |
| SRT | T-63000 | Gallbladder | Laparoscopic cholecystectomy |
| SRT | T-D7000 | Inguinal region | Endoscopic inguinal hernia repair |
| SRT | T-15001 | Joint | Arthroscopy |
| SRT | T-71000 | Kidney | Percutaneous renal endoscopy |
| SRT | T-D9200 | Knee | Arthroscopy of knee |
| SRT | T-59000 | Large intestine | Colonoscopy |
| SRT | T-24100 | Larynx | Laryngoscopy |
| SRT | T-40230 | Lumen of blood vessel | Endoluminal (intravascular) endoscopy |
| SRT | T-D3300 | Mediastinum | Mediastinoscopy |
| SRT | T-2300C | Nasopharynx | Nasopharyngoscopy |
| SRT | T-22000 | Paranasal sinus | Endoscopic sinus surgery |
| SRT | T-55002 | Pharynx | Pharyngoscopy |
| SRT | T-20101 | Pharynx and larynx | Laryngopharyngoscopy |
| SRT | T-59600 | Rectum | Proctoscopy |
| SRT | T-D2220 | Shoulder | Arthroscopy of shoulder |
| SRT | T-59470 | Sigmoid colon | Sigmoidoscopy |
| SRT | T-D04FF | Spine | Spinal endoscopy |
| SRT | T-DD006 | Trachea and bronchus | Tracheobronchoscopy |
| SRT | T-7000B | Upper urinary tract | Percutaneous or retrograde ureteric and renal endoscopy |
| SRT | T-73800 | Ureter | Percutaneous or retrograde ureteric endoscopy |

| Coding Scheme Designator | Code Value | Code Meaning | Example of the type of endoscopy for which this region is applicable (Informative) |
|---------------------------------|-------------------|----------------------------|---|
| SRT | T-88920 | Uterus and fallopian tubes | Culdoscopy |

J SNOMED Retired Codes

This Annex identifies coded terms specified in earlier versions of the Standard. These coded terms are retired. Some of the codes conflict with codes defined in SNOMED. Additionally, some SNOMED coded terms specified in earlier versions of the Standard have been retired and replaced by SNOMED to avoid ambiguities in concept, and are noted here as well.

Implementers of the Standard are cautioned that:

- some of the codes noted as retired are still valid (active) SNOMED codes, but with different meanings; it is thus the combination of code and meaning that is retired
- not all of the codes that IHTSDO may have inactivated in any past, current or future SNOMED CT release have yet been retired from DICOM
- some applications may continue to send retired codes with the meaning defined in this Annex
- the retired codes may be associated with coding scheme designator 99SDM, SNM3 or SRT
- retired codes may be encountered in existing SOP Instances stored in archives
- applications receiving SOP Instances should continue to support retired codes with the meaning defined in this Annex
- some applications may not trigger expected behavior (e.g., hanging protocols, image processing) when receiving SOP Instances with the replacement codes
- DICOM applications and SOP Instances shall never use the retired codes with a meaning other than that defined in this Annex
- in some cases, the choice of replacement code for a retired code depends on the context of its use, and so one retired code may map to more than one replacement code

Table J-1. SNOMED Codes Retired from DICOM Use

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|---------------------|------------------|--|
| G-5190 | Headfirst | F-10470 | |
| G-5191 | Feet-first | F-10480 | |
| G-A11A | Mid-longitudinal | G-A188 | |
| G-A11B | Parasagittal | G-A189 | |
| G-A12A | Intraluminal | R-42142 | |
| G-A16A | Capsule | G-A171 | Replacement code has meaning "Capsular" G-A16A remains in use as "Area of defined region" |
| G-A16B | Lumen | T-D0048 | |
| G-A16C | Contact | G-4022 | Replacement code has meaning "Contact with" G-A16C remains in use as "Part of tooth" |
| G-A16D | Parenchyma | T-D0062 | |
| J-83250 | Metal (Lead) Marker | A-00D7B | |
| R-102C9 | Transthoracic | R-40885 | |
| R-102CA | Lordotic | R-40799 | |
| R-102CB | Transforaminal | R-4087B | |
| R-102CC | Transoral | G-D00B | |
| R-102CE | Transorbital | R-40554 | |
| R-11300 | Transverse | G-A117 | |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|-------------------------------------|------------------|---|
| Y-X1770 | Cranio-caudal exaggerated laterally | R-1024A | |
| Y-X1771 | Cranio-caudal exaggerated medially | R-1024B | |
| T-D1217 | Maxilla and mandible | T-D1213 | |
| T-D1480 | Orbit | T-D14AE | |
| T-D6151 | Uterus and fallopian tubes | T-88920 | |
| G-0371 | % Area Reduction | R-101BA | |
| G-0372 | % Diameter Reduction | R-101BB | |
| G-C295 | Route of Administration | G-C340 | |
| G-D100 | Route of Administration | G-C340 | |
| T-42501 | Abdominal Aorta | T-42500 | |
| T-42303 | Aortic Arch | T-42300 | |
| T-45011 | Carotid Artery | T-45010 | |
| T-A600A | Cerebellum | T-A6000 | |
| T-D00CC | Entire Spine | T-D0146 | |
| T-48500 | Pulmonary Vein | T-48581 | |
| T-D8300 | Elbow | T-15430 | |
| T-12402 | Forearm | T-D8500 | |
| T-D2500 | Hip | T-15710 | |
| T-D4909 | Kidney | T-71000 | |
| T-62002 | Liver | T-62000 | |
| T-D4034 | Pancreas | T-65000 | |
| T-55002 | Pharynx | T-55000 | |
| T-11500 | Spine | T-D04FF | Was previously replaced with T-D0146, which is no longer an active SNOMED CT concept. |
| T-D0146 | Spine | T-D04FF | Replacement code has meaning of "Structure of vertebral column (body structure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| T-D4035 | Spleen | T-C3000 | |
| T-9400F | Testis | T-94000 | |
| T-4600A | Thoracic aorta | T-42070 | |
| T-C8001 | Thymus | T-C8000 | |
| T-D6151 | Uterus and fallopian tubes | T-88920 | |
| T-73800 | Ureter | T-73000 | |
| T-83009 | Uterus | T-83000 | |
| T-D8600 | Wrist | T-15460 | |
| T-11167 | Zygoma | T-11166 | |
| P5-B3003 | Transthoracic echocardiography | P5-B3012 | |
| P5-B3004 | Epicardial echocardiography | P0-05F95 | |
| P5-B3082 | Pediatric echocardiography | P5-B300F | |
| P5-B3083 | Intraoperative echocardiography | P5-B300C | |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|---|------------------|-------|
| P5-01000 | Image acquisition procedure | | |
| P5-01101 | Image acquisition after administration of contrast agent | | |
| P5-01103 | Image acquisition during cardiac pacing | P2-35000 | |
| P5-01104 | Image acquisition at user-defined cardiac pacing rate | P2-35000 | |
| P5-01111 | Image acquisition during hand grip maneuver | P2-71306 | |
| P5-01112 | Image acquisition during Valsalva | R-40928 | |
| P5-01113 | Image acquisition during postural maneuver | | |
| P5-01120 | Pre-procedure image acquisition | R-40FB9 | |
| P5-01121 | Preoperative image acquisition | R-40FB9 | |
| P5-01130 | Intra-procedure image acquisition | R-40FBA | |
| P5-01131 | Intra-operative image acquisition | R-40FBA | |
| P5-01140 | Post-procedure image acquisition | R-422A4 | |
| P5-01141 | Post-operative image acquisition | R-422A4 | |
| P5-01142 | Image acquisition following first cardiopulmonary bypass | R-422A4 | |
| P5-01143 | Image acquisition following second cardiopulmonary bypass | R-422A4 | |
| P5-01144 | Image acquisition following third cardiopulmonary bypass | R-422A4 | |
| P5-01200 | Image acquisition during stress procedure | R-40FBA | |
| P5-01201 | Image acquisition at baseline | F-01602 | |
| P5-01202 | Pre-stress image acquisition | F-01602 | |
| P5-01203 | Mid-stress image acquisition | F-05019 | |
| P5-01204 | Peak-stress image acquisition | F-05028 | |
| P5-01205 | Image acquisition during recovery | F-05018 | |
| P5-01300 | Image acquisition after drug administration | F-05019 | |
| P5-01310 | Image acquisition at user-defined dobutamine dose | F-05019 | |
| P5-01311 | Image acquisition at low-dose dobutamine | F-05019 | |
| P5-01312 | Image acquisition at mid-dose dobutamine | F-05019 | |
| P5-01313 | Image acquisition at peak dose dobutamine | F-05019 | |
| P5-01314 | Image acquisition at dobutamine 5 mcg/kg/min | F-05019 | |
| P5-01315 | Image acquisition at dobutamine 10 mcg/kg/min | F-05019 | |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|---|------------------|-------|
| P5-01316 | Image acquisition at dobutamine 20 mcg/kg/min | F-05019 | |
| P5-01317 | Image acquisition at dobutamine 30 mcg/kg/min | F-05019 | |
| P5-01318 | Image acquisition at dobutamine 40 mcg/kg/min | F-05019 | |
| P5-01319 | Image acquisition at dobutamine 50 mcg/kg/min | F-05019 | |
| P5-0131A | Image at dobutamine 40 mcg/kg/min plus atropine | F-05019 | |
| P5-0131B | Image acquisition at dobutamine 50 mcg/kg/min plus atropine | F-05019 | |
| P5-01323 | Image acquisition at peak Arbutamine dose | F-05028 | |
| P5-01333 | Image acquisition at peak dipyridamole | F-05028 | |
| P5-01341 | Image acquisition after nitroglycerin | F-05019 | |
| P5-01342 | Image acquisition after amyl nitrite | F-05019 | |
| P5-01343 | Image acquisition after adenosine | F-05019 | |
| P5-B301F | Limited M-mode only echocardiography | P5-B3000 | |
| P5-B303F | Limited Doppler only echocardiography | P5-B3000 | |
| P5-B3051 | Maximal stress echocardiography | P5-B3050 | |
| P5-B3052 | Submaximal stress echocardiography | P5-B3050 | |
| P5-B3053 | Treadmill exercise stress echocardiography | P5-B3050 | |
| P5-B3054 | Bruce treadmill stress echocardiography | P2-7131A | |
| P5-B3055 | Modified Bruce treadmill stress echocardiography | P2-7131B | |
| P5-B3056 | Naughton treadmill stress echocardiography | P2-713A0 | |
| P5-B3058 | Bicycle exercise stress echocardiography | P2-31102 | |
| P5-B3060 | Echocardiography with administered drug stress | P2-31107 | |
| P5-B3061 | Dobutamine stress echocardiography | P2-31108 | |
| P5-B3062 | High dose dobutamine stress echocardiography | P2-31108 | |
| P5-B3063 | Low dose dobutamine stress echocardiography | P2-31108 | |
| P5-B3065 | Arbutamine stress echocardiography | P2-31107 | |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|--|------------------|--|
| P5-B3066 | Dipyridamole stress echocardiography | P2-3110A | |
| P5-B3070 | Cardiac pacing echocardiography | P2-3110B | |
| P5-B3081 | Adult echocardiography | P5-B3000 | Replacement code has meaning "Echocardiography" |
| P5-B3081 | Adult echocardiography | P5-B3004 | Replacement code has meaning "Transthoracic echocardiography" |
| P5-B3084 | Upright echocardiography | P5-B3004 | |
| P5-B3085 | Supine echocardiography | P5-B3004 | |
| P5-B3091 | Contrast left ventricular opacification echocardiography | P5-B3090 | |
| P5-B3092 | Contrast perfusion echocardiography | P5-B3090 | |
| P5-B3093 | Contrast Doppler enhancement echocardiography | P5-B3090 | |
| P5-B3191 | 2D complete echocardiography | P5-B3004 | |
| P5-B3192 | Limited 2D only echocardiography | P5-B3004 | |
| F-F7102 | Valsalva maneuver | R-40928 | |
| L-8061A | Sterling pig breed | L-8063D | |
| L-8061F | Black Slavonian pig breed | L-8B151 | |
| L-807E1 | Bizanian Hound dog breed | L-807E3 | |
| L-80B03 | Rideau Arcott sheep breed | L-80B24 | |
| L-8BC43 | Beefalo bison X cattle breed | L-8B949 | |
| L-8BC44 | Beefalo bison X cattle breed | L-801E8 | |
| R-4041B | Hypokinesia | F-32056 | |
| F-32056 | Mild hypokinesia | R-00327 | |
| P5-B3009 | Exercise stress echocardiography | P5-B3050 | |
| R-10218 | right anterior oblique | R-40985 | |
| R-10222 | sagittal | G-A145 | |
| T-51005 | Anterior 1 | R-FB322 | Central incisor region |
| T-51006 | Anterior 2 | R-FB35C | Lateral incisor region |
| T-51007 | Anterior 3 | R-FB35B | Canine region |
| T-51008 | Premolar 1 | R-FB35A | First premolar region |
| T-51009 | Premolar 2 | R-FB359 | Second premolar region |
| T-5100A | Molar 1 | R-FB358 | First molar region |
| T-5100B | Molar 2 | R-FB356 | Second molar region |
| T-5100C | Molar 3 | R-FB354 | Third molar region |
| T-5100D | Occlusal | R-40810 | Occlusal Projection |
| L-85B00 | homo sapiens | L-85003 | Replacement code has meaning of "Homo sapiens (organism)". Retired code is inactive in SNOMED CT (Ambiguous). |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|--|------------------|---|
| L-80100 | Bovine species | L-8BA18 | Replacement code has meaning of "Genus Bos (organism)". Retired code is inactive in SNOMED CT (Ambiguous). |
| L-80200 | Caprine species | L-8C3FB | Replacement code has meaning of "Genus Capra (organism)". Retired code is inactive in SNOMED CT (Ambiguous). |
| L-80300 | Ovine species | L-8C3FD | Replacement code has meaning of "Genus Ovis (organism)". Retired code is inactive in SNOMED CT (Ambiguous). |
| L-80400 | Equine species | L-000A9 | Replacement code has meaning of "Genus Equus (organism)". Retired code is inactive in SNOMED CT (Ambiguous). |
| L-80500 | Porcine species | L-8B1FB | Replacement code has meaning of "Genus Sus (organism)". Retired code is inactive in SNOMED CT (Ambiguous). |
| L-80700 | Canine species | L-881FC | Replacement code has meaning of "Genus Canis (organism)". Retired code is inactive in SNOMED CT (Ambiguous). |
| L-80A00 | Feline species | L-000F9 | Replacement code has meaning of "Genus Felis (organism)". Retired code is inactive in SNOMED CT (Ambiguous). |
| D-80515 | Thrombosis | M-35001 | Replacement code has meaning of "Thrombus". Retired code does not exist SNOMED CT. |
| A-26A06 | Fixed object | | No replacement . Retired code does not exist SNOMED CT. |
| A-26A08 | Grid | | No replacement . Retired code does not exist SNOMED CT. |
| C-C2318 | Priscoline hydrochloride ampuls | C-815E1 | Replacement code has meaning of "Tolazoline hydrochloride". Retired code does not exist SNOMED CT (was in SNOMED RT). |
| C-B03H2 | Iopromide | C-B0382 | Replacement code has meaning of "Iopromide". Retired code does not exist SNOMED CT. |
| G-929D | Cardiac catheterization test/challenging phase | R-002E4 | Replacement code has meaning of "Cardiac catheterization test/challenge phase". Retired code does not exist SNOMED CT. |
| D6-90600 | Marfan's Syndrome | D6-90800 | Replacement code has meaning of "Marfan's Syndrome". Retired code does not exist SNOMED CT. |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|---------------------------|------------------|---|
| D3-30800 | Cardiac arrest | D3-3002F | Replacement code has meaning of "Cardiac arrest (disorder)". Retired code is inactive in SNOMED CT (Ambiguous). |
| L-8BB55 | Mere cattle breed | L-8BA68 | Replacement code has meaning of "Lobi cattle breed (organism)". Retired code is inactive in SNOMED CT (Ambiguous). |
| M-34200 | Stenosis | M-3400A | Replacement code has meaning of "Stenosis (morphologic abnormality)". Retired code is inactive in SNOMED CT (Ambiguous). |
| M-33410 | Epidermal inclusion cyst | M-33415 | Replacement code has meaning of "Epidermoid cyst (morphologic abnormality)". Retired code is inactive in SNOMED CT (Ambiguous). |
| P3-00048 | Smear procedure | P1-0329D | Replacement code has meaning of "Sampling for smear (procedure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| T-70000 | Urinary tract | T-7000C | Replacement code has meaning of "Structure of urinary tract proper (body structure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| G-D150 | By inhalation | R-40B32 | Replacement code has meaning of "Inhalation technique (qualifier value)". Retired code is inactive in SNOMED CT (Ambiguous). |
| P1-03005 | Lumpectomy | P1-030C4 | Replacement code has meaning of "Lumpectomy of breast (procedure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| G-A264 | Calcified | D6-34737 | Replacement code has meaning of "Vascular calcification (disorder)". Retired code is inactive in SNOMED CT (Ambiguous). |
| D7-90360 | Cyst of breast | D7-90035 | Replacement code has meaning of "Cyst of breast (disorder)". Retired code is inactive in SNOMED CT (Ambiguous). |
| R-20681 | O/E - lymphadenopathy NOS | R-202A9 | Replacement code has meaning of "On examination - lymph nodes (finding)". Retired code is inactive in SNOMED CT (Limited). |
| R-411C5 | Muscle Bridge | D4-31B68 | Replacement code has meaning of "Myocardial bridge of coronary artery (disorder)". Retired code is inactive in SNOMED CT (Ambiguous). |
| F-618FF | Amphetamine | R-FBDEA | Replacement code has meaning of "1-phenylpropan-2-amine (substance)". Retired code is inactive in SNOMED CT (Ambiguous). |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|---------------------------|------------------|--|
| DD-00001 | trauma | DF-00777 | Replacement code has meaning of "Traumatic injury (disorder)". Retired code is inactive in SNOMED CT (Ambiguous). |
| G-A168 | Surface | G-A206 | Replacement code has meaning of "Surface (qualifier value)". Retired code is inactive in SNOMED CT (Ambiguous). |
| D4-31159 | Ventricular Septal Defect | D4-31150 | Replacement code has meaning of "Ventricular septal defect (disorder)". Retired code is inactive in SNOMED CT (Ambiguous). |
| P5-C0610 | Brachytherapy | P5-C018A | Replacement code has meaning of "Intracavitary brachytherapy (procedure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| L-808C9 | Dingo dog breed | L-DA692 | Replacement code has meaning of "Canis lupus dingo (organism)". Retired code is inactive in SNOMED CT (Erroneous). |
| G-A105 | Anterior | R-404CC | Replacement code has meaning of "Anterior (qualifier value)". Retired code is inactive in SNOMED CT (Ambiguous). |
| T-48052 | Basilic vein | T-49230 | Replacement code has meaning of "Structure of basilic vein (body structure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| G-A106 | Posterior | R-404CE | Replacement code has meaning of "Posterior (qualifier value)". Retired code is inactive in SNOMED CT (Ambiguous). |
| D3-29013 | Mitral valve prolapse | D3-1081C | Replacement code has meaning of "Mitral valve prolapse (disorder)". Retired code is inactive in SNOMED CT (Ambiguous). |
| T-41040 | Iliac arterial system | T-41068 | Replacement code has meaning of "Iliac and/or femoral artery structures (body structure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| G-A109 | Medial | R-404D5 | Replacement code has meaning of "Medial (qualifier value)". Retired code is inactive in SNOMED CT (Ambiguous). |
| G-A109 | Median | R-4081A | Replacement code has meaning of "Median (qualifier value)". Retired code is inactive in SNOMED CT (Ambiguous). |
| G-A109 | Middle | R-4081A | Replacement code has meaning of "Median (qualifier value)". Retired code is inactive in SNOMED CT (Ambiguous). |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|------------------------------------|------------------|---|
| D4-32508 | Fistula coronary to right atrium | R-002ED | Retired code actually has meaning in SNOMED CT of "Coronary artery arising from aorta (disorder)". Replacement code has meaning of "Coronary artery fistula to right atrium (disorder)". Retired code is inactive in SNOMED CT (Ambiguous). |
| G-A22A | Length | G-D7FE | Replacement code has meaning of "Length property (qualifier value)". Retired code is inactive in SNOMED CT (Ambiguous). |
| T-D8100 | Axilla | T-D8104 | Replacement code has meaning of "Axillary region structure (body structure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| R-102BC | Internal Carotid Artery C6 segment | R-FAED1 | Replacement code has meaning of "Structure of ophthalmic segment of internal carotid artery (body structure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| L-80A50 | Shorthaired cat | L-80A87 | Replacement code has meaning of "Shorthair cat breed (organism)". Retired code is inactive in SNOMED CT (Ambiguous). |
| R-F5517 | Pulmonary arteriovenous fistula | D3-4020B | Replacement code has meaning of "Intrapulmonary arteriovenous fistula (disorder)". Retired code is inactive in SNOMED CT (Ambiguous). |
| F-B2110 | Epinephrine | F-B2135 | Replacement code has meaning of "Epinephrine (substance)". Retired code is inactive in SNOMED CT (Ambiguous). |
| T-70010 | Upper urinary tract | T-7000B | Replacement code has meaning of "Structure of upper urinary tract proper (body structure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| C-21005 | Ethanol | C-21047 | Replacement code has meaning of "Ethyl alcohol (substance)". Retired code is inactive in SNOMED CT (Ambiguous). |
| D3-13000 | Coronary artery disease | D3-13040 | Replacement code has meaning of "Coronary arteriosclerosis (disorder)". Retired code is inactive in SNOMED CT (Ambiguous). |
| T-C4510 | mesenteric lymph node | T-C4401 | Replacement code has meaning of "Structure of lymph node of mesentery (body structure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| C-A7040 | Thrombin preparation | F-6ACA0 | Replacement code has meaning of "Thrombin (substance)". Retired code is inactive in SNOMED CT (Ambiguous). |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|--|------------------|--|
| G-A112 | External | R-40941 | Replacement code has meaning of "External (qualifier value)". Retired code is inactive in SNOMED CT (Ambiguous). |
| G-A113 | Internal | R-40819 | Replacement code has meaning of "Internal (qualifier value)". Retired code is inactive in SNOMED CT (Ambiguous). |
| F-A5581 | Vasovagal attack | F-A558A | Replacement code has meaning of "Vasovagal syncope (disorder)". Retired code is inactive in SNOMED CT (Ambiguous). |
| C-2287C | methyl violet stain | F-61A76 | Replacement code has meaning of "Gentian violet (substance)". Retired code is inactive in SNOMED CT (Ambiguous). |
| T-41070 | Abdominal aorta and its branches | T-42500 | Replacement code has meaning of "Abdominal aorta structure (body structure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| G-A115 | Inferior | R-4094A | Replacement code has meaning of "Inferior (qualifier value)". Retired code is inactive in SNOMED CT (Ambiguous). |
| C-80130 | Cardiac adrenergic blocking agent | F-6181D | Replacement code has meaning of "Cardiac adrenergic blocking agent (substance)". Retired code is inactive in SNOMED CT (Ambiguous). |
| G-A116 | Superior | R-42191 | Replacement code has meaning of "Superior (qualifier value)". Retired code is inactive in SNOMED CT (Ambiguous). |
| M-35100 | Thrombus | M-35001 | Replacement code has meaning of "Thrombus (morphologic abnormality)". Retired code is inactive in SNOMED CT (Ambiguous). |
| C-80125 | Cardiac depressant agent | | Retired code is inactive in SNOMED CT (Ambiguous). |
| P1-31926 | Creation of conduit of right atrium and pulmonary artery | P1-31028 | Replacement code has meaning of "Construction of conduit - right atrium to pulmonary trunk". Retired code is inactive in SNOMED CT (Duplicate). |
| T-D06B6 | Nuchal region of scalp | R-FB565 | Replacement code has meaning of "Structure of occipital region of scalp". Retired code is inactive in SNOMED CT (Ambiguous). |
| T-49423 | Lateral calf perforator | T-F6724 | Replacement code has meaning of "Structure of lateral calf perforator". Retired code is inactive in SNOMED CT (Ambiguous). |
| T-4942C | Thigh perforator | T-F6713 | Replacement code has meaning of "Structure of thigh perforator". Retired code is inactive in SNOMED CT (Ambiguous). |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|---------------------------------|------------------|--|
| G-A231 | Acute | R-424BE | Replacement code has meaning of "Acute onset (qualifier value)". Retired code is inactive in SNOMED CT (Erroneous). |
| D3-28012 | Subacute bacterial endocarditis | D3-28102 | Replacement code has meaning of "Subacute bacterial endocarditis (disorder)". Retired code was used incorrectly because of digit transposition and means something else, and is also inactive in SNOMED CT (Limited). |
| C-2288B | alcian blue stain | C-22963 | Replacement code has meaning of "Alcian blue 8GX stain (substance)". Retired code is inactive in SNOMED CT (Duplicate). |
| R-002CE | Aneurysmal | R-40411 | Replacement code has meaning of "Aneurysmal (qualifier value)". Retired code is inactive in SNOMED CT (Duplicate). |
| L-80010 | Wuzhishan pig breed | L-80666 | Replacement code has meaning of "Wuzhishan pig breed (organism)". Retired code was used incorrectly and means something else, and is also inactive in SNOMED CT (Duplicate). |
| T-41066 | Artery | T-41000 | Replacement code has meaning of "Arterial structure (body structure)". Retired code is inactive in SNOMED CT (Limited). |
| L-80506 | Beltsville pig #1 pig breed | | No replacement. Retired code is inactive in SNOMED CT (Duplicate). |
| L-80507 | Beltsville pig #2 pig breed | | No replacement. Retired code is inactive in SNOMED CT (Duplicate). |
| L-807E6 | Bordeaux Dog breed | L-808A3 | Replacement code has meaning of "Dogue de Bordeaux dog breed (organism)". Retired code is inactive in SNOMED CT (Duplicate). |
| L-80551 | CPF pig #1 pig breed | | No replacement. Retired code is inactive in SNOMED CT (Duplicate). |
| L-80552 | CPF pig #2 pig breed | | No replacement. Retired code is inactive in SNOMED CT (Duplicate). |
| D4-31320 | Common Atrium | D4-31005 | Replacement code has meaning of "Cor triloculare biventriculare (disorder)". Retired code is inactive in SNOMED CT (Duplicate). |
| M-32206 | Compound Aneurysm | M-32240 | Replacement code has meaning of "Mixed aneurysm (morphologic abnormality)". Retired code is inactive in SNOMED CT (Duplicate). |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|---|------------------|--|
| P5-B3008 | Contrast echocardiography | P5-B3090 | Replacement code has meaning of "Contrast echocardiography (procedure)". Retired code is inactive in SNOMED CT (Retired without stated reason). |
| C-2283D | crystal violet stain | F-61A76 | Replacement code has meaning of "Gentian violet (substance)". Retired code is inactive in SNOMED CT (Duplicate). |
| P1-86101 | Decompression amniocentesis [decompression of amnion] | | No replacement. Retired code is inactive in SNOMED CT (Ambiguous). |
| F-31120 | Diastolic Pressure | F-008ED | Replacement code has meaning of "Diastolic blood pressure (observable entity)". Retired code is inactive in SNOMED CT (Duplicate). |
| C-B03AA | Dimeglumine gadopentetate | C-B014D | Replacement code has meaning of "Gadopentetate dimeglumine (product)". Retired code is inactive in SNOMED CT (Duplicate). |
| R-002FE | Double vessel coronary artery disease. | D3-13013 | Replacement code has meaning of "Double coronary vessel disease (disorder)". Retired code is inactive in SNOMED CT (Duplicate). |
| F-32011 | End diastole | R-FAB5C | Replacement code has meaning of "End diastole (qualifier value)". Retired code is inactive in SNOMED CT (Erroneous). |
| T-D0788 | Carpus | T-D8600 | Replacement code has meaning of "Wrist region structure (body structure)". Retired code is inactive in SNOMED CT (Duplicate). |
| T-A1504 | Cranial Subarachnoid Space | T-A1502 | Replacement code has meaning of "Structure of subarachnoid space of brain (body structure)". Retired code is inactive in SNOMED CT (Duplicate). |
| T-11096 | Tarsus | T-12761 | Replacement code has meaning of "Bone structure of tarsus (body structure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| G-0325 | Family history of breast cancer | G-04C5 | Replacement code has meaning of "Family history of malignant neoplasm of breast (situation)". Retired code is inactive in SNOMED CT (Duplicate). |
| F-0147C | Hematoma - postoperative | F-01FBA | Replacement code has meaning of "Postoperative hematoma formation (disorder)". Retired code is inactive in SNOMED CT (Duplicate). |
| PA-50032 | Pulmonary capillary wedge method | G-DB26 | Replacement code has meaning of "Pulmonary capillary wedge pressure waveform, function (observable entity)". Retired code is inactive in SNOMED CT (Duplicate). |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|---|------------------|---|
| C-A6920 | Injectable fibrinogen | F-D7011 | Replacement code has meaning of "Human fibrinogen (substance)". Retired code is inactive in SNOMED CT (Duplicate). |
| G-D105 | Intracutaneous route | G-D17D | Replacement code has meaning of "Intradermal route (qualifier value)". Retired code is inactive in SNOMED CT (Duplicate). |
| F-00585 | Lesion Finding | F-03FCD | Replacement code has meaning of "Finding of lesion (finding)". Retired code is inactive in SNOMED CT (Duplicate). |
| P5-09100 | Magnetic resonance angiography | P5-0903A | Replacement code has meaning of "Magnetic resonance imaging of vessels (procedure)". Retired code is inactive in SNOMED CT (Duplicate). |
| F-6166C | Marijuana derivative | F-61D6F | Replacement code has meaning of "Cannabis (substance)". Retired code is inactive in SNOMED CT (Ambiguous). |
| F-6175A | N-acetylaspartate | F-65C50 | Replacement code has meaning of "N-acetyl-L-aspartate (substance)". Retired code is inactive in SNOMED CT (Duplicate). |
| F-52760 | Nausea | F-04E95 | Replacement code has meaning of "Nausea (finding)". Retired code is inactive in SNOMED CT (Erroneous). |
| P5-D10F8 | Nuclear medicine diagnostic procedure on musculoskeletal system | P5-D1000 | Replacement code has meaning of "Radioisotope study of musculoskeletal system (procedure)". Retired code is inactive in SNOMED CT (Duplicate). |
| T-3215A | Ostium | R-4215C | Replacement code has meaning of "Ostium (qualifier value)". Retired code is inactive in SNOMED CT (Ambiguous). |
| R-00305 | Heart Valve Flail | | No replacement. Retired code means something completely different, "Other surgical margin site involved by malignant neoplasm (observable entity)" and is inactive in SNOMED CT (Ambiguous). |
| R-0039E | Patient has pacemaker | R-00728 | Replacement code has meaning of "Cardiac pacemaker in situ (finding)". Retired code is inactive in SNOMED CT (Duplicate). |
| T-D2236 | Pectoral girdle | T-12200 | Replacement code has meaning of "Shoulder girdle structure (body structure)". Retired code is inactive in SNOMED CT (Duplicate). |
| R-305E9 | Pediatric Surgery | R-30296 | Replacement code has meaning of "Pediatric surgical department (environment)". Retired code is inactive in SNOMED CT (Duplicate). |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|--|------------------|---|
| P5-39050 | Percutaneous retrieval of intravascular foreign body | P0-05AFA | Replacement code has meaning of "Percutaneous removal of endovascular foreign body (procedure)". Retired code is inactive in SNOMED CT (Duplicate). |
| L-809E9 | Perro de Prensa Canario dog breed | L-809B2 | Replacement code has meaning of "Presa Canario dog breed (organism)". Retired code is inactive in SNOMED CT (Duplicate). |
| L-80A96 | Pixiebob cat breed | L-8880D | Replacement code has meaning of "Pixie-bob cat breed (organism)". Retired code is inactive in SNOMED CT (Duplicate). |
| T-A2790 | posterior commissure | T-A4904 | Replacement code has meaning of "Posterior cerebral commissure (body structure)". Retired code is inactive in SNOMED CT (Duplicate). |
| R-10214 | postero-anterior | R-40888 | Replacement code has meaning of "Posteroanterior projection (qualifier value)". Retired code is inactive in SNOMED CT (Duplicate). |
| P0-02180 | Prophylactic intent | P0-021FD | Replacement code has meaning of "Prophylaxis - procedure intent (qualifier value)". Retired code is inactive in SNOMED CT (Duplicate). |
| C-B0310 | Radiopaque medium | C-B0300 | Replacement code has meaning of "Radiographic contrast media (product)". Retired code is inactive in SNOMED CT (Duplicate). |
| F-043E7 | Respiration rate | F-21000 | Replacement code has meaning of "Respiratory rate (observable entity)". Retired code is inactive in SNOMED CT (Duplicate). |
| C-22931 | safranin O stain | F-61DA5 | Replacement code has meaning of "Safranin stain (substance)". Retired code is inactive in SNOMED CT (Duplicate). |
| R-00374 | Single vessel coronary artery disease. | D3-13001 | Replacement code has meaning of "Single coronary vessel disease (disorder)". Retired code is inactive in SNOMED CT (Duplicate). |
| C-B0349 | Sodium tyropanate | C-B0314 | Replacement code has meaning of "Tyropanoate sodium (substance)". Retired code is inactive in SNOMED CT (Duplicate). |
| T-C4239 | anterior jugular lymph node | T-C401A | Replacement code has meaning of "Structure of superficial anterior cervical lymph node (body structure)". Retired code is inactive in SNOMED CT (Duplicate). |
| T-53131 | base of tongue | T-53130 | Replacement code has meaning of "Structure of root of tongue (body structure)". Retired code is inactive in SNOMED CT (Duplicate). |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|--|------------------|--|
| T-D1212 | Hypoglossal | T-D161E | Replacement code has meaning of "Submental triangle structure (body structure)". Retired code is inactive in SNOMED CT (Ambiguous). |
| A-13510 | Suture material | A-13500 | Replacement code has meaning of "Surgical suture, device (physical object)". Retired code is inactive in SNOMED CT (Duplicate). |
| F-03E7E | Systemic Vascular Resistance | F-02B35 | Replacement code has meaning of "Systemic vascular resistance (observable entity)". Retired code is inactive in SNOMED CT (Erroneous). |
| C-2285A | tartrate resistant acid phosphatase | C-2280A | Replacement code has meaning of "Acid phosphatase stain (substance)". Retired code was being misused as a stain but was a substance, and is also inactive in SNOMED CT (Duplicate). |
| C-B1212 | Technetium Tc ^{99m} medronate | C-B1218 | Replacement code has meaning of "Technetium Tc ^{99m} medronate (substance)". Retired code is inactive in SNOMED CT (Erroneous). |
| C-B1214 | Technetium Tc ^{99m} pentetate | C-163B0 | Replacement code has meaning of "Technetium Tc ^{99m} pentetate (substance)". Retired code is inactive in SNOMED CT (Ambiguous). |
| C-A7400 | Thrombolytic agent | C-50434 | Replacement code has meaning of "Thrombolytic (product)". Retired code is inactive in SNOMED CT (Duplicate). |
| C-A7042 | Thromboplastin preparation | F-D7B50 | Replacement code has meaning of "Thromboplastin (product)". Retired code is inactive in SNOMED CT (Duplicate). |
| G-A1A9 | Trans-hepatic | G-D027 | Replacement code has meaning of "Transhepatic approach (qualifier value)". Retired code is inactive in SNOMED CT (Retired without stated reason). |
| G-A1A8 | Trans-orbital | G-D065 | Replacement code has meaning of "Transorbital approach (qualifier value)". Retired code is inactive in SNOMED CT (Retired without stated reason). |
| R-00386 | Triple vessel coronary artery disease. | D3-1301F | Replacement code has meaning of "Triple vessel disease of the heart (disorder)". Retired code is inactive in SNOMED CT (Duplicate). |
| T-40210 | Media | T-1A180 | Replacement code has meaning of "Tunica media vasorum (body structure)". Retired code is inactive in SNOMED CT (Duplicate). |

| Retired Code Value | Code Meaning | Replacement Code | Notes |
|--------------------|---------------------------------|------------------|---|
| P5-B0099 | Ultrasound procedure | P5-B0000 | Replacement code has meaning of "Diagnostic ultrasonography (procedure)". Retired code is inactive in SNOMED CT (Retired without stated reason). |
| T-4806E | Vein | T-48000 | Replacement code has meaning of "Venous structure (body structure)". Retired code is inactive in SNOMED CT (Limited). |
| P2-2200A | Ventilatory assistance | P2-2290D | Replacement code has meaning of "Controlled ventilation (procedure)". Retired code is inactive in SNOMED CT (Duplicate). |
| D4-31022 | Left ventricle outflow chamber | | No replacement. Retired code is inactive in SNOMED CT (Ambiguous). |
| D4-31032 | Right ventricle outflow chamber | | No replacement. Retired code is inactive in SNOMED CT (Ambiguous). |

Table J-2. SNOMED Synonyms Retired from DICOM Use

| Code Value | Retired Code Meaning | Replacement Code Meaning | Notes |
|------------|----------------------|------------------------------------|--|
| M-01000 | Lesion | Morphologically Abnormal Structure | Retired synonym has status of "inappropriate" in SNOMED CT. A different SNOMED CT concept is used to refer specifically to lesions, (M-01100, SRT, "Lesion"). |

K Relevant Patient Information Templates (Normative)

The following Templates are appropriate to use as Root Templates for the Relevant Patient Information Query Service Class:

- TID 9007 "General Relevant Patient Information"
- TID 9000 "Relevant Patient Information for Breast Imaging"
- TID 9001 "Gynecological History"
- TID 9002 "Medication, Substance, Environmental Exposure"
- TID 9003 "Previous Procedure"
- TID 9004 "Indicated Problem"
- TID 9005 "Risk Factor"
- TID 9006 "Obstetric History"
- TID 3802 "Cardiovascular Patient History"

L Correspondence of Anatomic Region Codes and Body Part Examined Defined Terms

This Annex defines a correspondence between the codes used in context groups for Anatomic Region Sequence (0008,2218) and Body Part Examined (0018,0015), as well as providing a list of the Defined Terms for Body Part Examined (0018,0015), for human use in Table L-1 and for large animal use in Table L-2 and for small animal use in Table L-3.

Table L-1. Corresponding SNOMED Terms for Human Use

| SNOMED Code Value | Code Meaning | Body Part Examined |
|-------------------|--------------------------------|--------------------|
| T-D4000 | Abdomen | ABDOMEN |
| R-FAB57 | Abdomen and Pelvis | ABDOMENPELVIS |
| T-42500 | Abdominal aorta | |
| T-15420 | Acromioclavicular joint | |
| T-B3000 | Adrenal gland | ADRENAL |
| T-15750 | Ankle joint | ANKLE |
| T-48503 | Anomalous pulmonary vein | |
| T-49215 | Antecubital vein | |
| T-48440 | Anterior cardiac vein | |
| T-45530 | Anterior communicating artery | |
| T-45730 | Anterior spinal artery | |
| T-47700 | Anterior tibial artery | |
| T-59490 | Anus, rectum and sigmoid colon | |
| T-42000 | Aorta | AORTA |
| T-42300 | Aortic arch | |
| D3-81922 | Aortic fistula | |
| T-32602 | Apex of left ventricle | |
| T-280A0 | Apex of Lung | |
| T-32502 | Apex of right ventricle | |
| T-41000 | Artery | |
| T-42100 | Ascending aorta | |
| T-32100 | Atrium | |
| T-D8104 | Axilla | AXILLA |
| T-47100 | Axillary Artery | |
| T-49110 | Axillary vein | |
| T-48340 | Azygos vein | |
| T-D2100 | Back | BACK |
| A-00203 | Baffle | |
| T-45800 | Basilar artery | |
| T-60610 | Bile duct | |
| T-74000 | Bladder | BLADDER |
| T-DD123 | Bladder and urethra | |
| T-D00AB | Body conduit | |

| SNOMED Code Value | Code Meaning | Body Part Examined |
|-------------------|---|--------------------|
| T-49424 | Boyd's perforating vein | |
| T-47160 | Brachial artery | |
| T-49350 | Brachial vein | |
| T-A0100 | Brain | BRAIN |
| T-04000 | Breast | BREAST |
| T-D6500 | Broad ligament | |
| T-26000 | Bronchus | BRONCHUS |
| T-D1206 | Buccal region of face | |
| T-D2600 | Buttock | BUTTOCK |
| T-12770 | Calcaneus | CALCANEUS |
| T-D9440 | Calf of leg | CALF |
| T-72100 | Calyx | |
| T-45010 | Carotid Artery | CAROTID |
| T-49240 | Cephalic vein | |
| T-A6000 | Cerebellum | CEREBELLUM |
| T-45510 | Cerebral artery | |
| T-11501 | Cervical spine | CSPINE |
| T-D00F7 | Cervico-thoracic spine | CTSPINE |
| T-83200 | Cervix | CERVIX |
| T-D1206 | Cheek | CHEEK |
| T-D3000 | Chest | CHEST |
| R-FAB55 | Chest and Abdomen | CHESTABDOMEN |
| R-FAB56 | Chest, Abdomen and Pelvis | CHESTABDPELVIS |
| T-45526 | Circle of Willis | CIRCLEOFWILLIS |
| T-12310 | Clavicle | CLAVICLE |
| T-11BF0 | Coccyx | COCCYX |
| T-59300 | Colon | COLON |
| D4-31005 | Common atrium | |
| T-45100 | Common carotid artery | |
| T-46710 | Common iliac artery | |
| T-48920 | Common iliac vein | |
| D4-31120 | Common ventricle | |
| D4-32504 | Congenital coronary artery fistula to left atrium | |
| D4-32506 | Congenital coronary artery fistula to left ventricle | |
| D4-32509 | Congenital coronary artery fistula to right atrium | |
| D4-32510 | Congenital coronary artery fistula to right ventricle | |
| D3-40208 | Congenital pulmonary arteriovenous fistula | |
| T-AA200 | Cornea | CORNEA |
| T-43000 | Coronary artery | CORONARYARTERY |
| T-48410 | Coronary sinus | |
| T-A0193 | Cranial venous system | |
| T-42400 | Descending aorta | |

| SNOMED Code Value | Code Meaning | Body Part Examined |
|-------------------|---------------------------------|--------------------|
| T-49429 | Dodd's perforating vein | |
| T-58200 | Duodenum | DUODENUM |
| T-AB000 | Ear | EAR |
| T-15430 | Elbow joint | ELBOW |
| T-41000 | Endo-arterial | |
| T-32000 | Endo-cardiac | |
| T-56000 | Endo-esophageal | |
| T-21300 | Endo-nasal | |
| T-23050 | Endo-nasopharyngeal | |
| T-59600 | Endo-rectal | |
| T-71000 | Endo-renal | |
| T-73000 | Endo-ureteric | |
| T-75000 | Endo-urethral | |
| T-82000 | Endo-vaginal | |
| T-40000 | Endo-vascular | |
| T-48000 | Endo-venous | |
| T-74250 | Endo-vesical | |
| T-D0010 | Entire body | WHOLEBODY |
| T-D4200 | Epigastric region | |
| T-56000 | Esophagus | ESOPHAGUS |
| T-DD163 | Esophagus, stomach and duodenum | |
| T-AB200 | External auditory canal | |
| T-45200 | External carotid artery | |
| T-46910 | External iliac artery | |
| T-48930 | External iliac vein | |
| T-D0300 | Extremity | EXTREMITY |
| T-AA000 | Eye | EYE |
| T-AA810 | Eyelid | EYELID |
| T-D1200 | Face | FACE |
| T-45240 | Facial artery | |
| T-11196 | Facial bones | |
| T-47400 | Femoral artery | |
| T-49410 | Femoral vein | |
| T-12710 | Femur | FEMUR |
| T-D8800 | Finger | FINGER |
| T-D2310 | Flank | |
| T-15200 | Fontanel of skull | |
| T-D9700 | Foot | FOOT |
| T-D8500 | Forearm | |
| T-63000 | Gallbladder | GALLBLADDER |
| T-48820 | Gastric vein | |
| T-47490 | Genicular artery | |

| SNOMED Code Value | Code Meaning | Body Part Examined |
|-------------------|-------------------------------|--------------------|
| T-D2600 | Gluteal region | |
| T-48420 | Great cardiac vein | |
| T-D8700 | Hand | HAND |
| T-D1100 | Head | HEAD |
| T-D1000 | Head and Neck | HEADNECK |
| T-32000 | Heart | HEART |
| T-46420 | Hepatic artery | |
| T-48720 | Hepatic vein | |
| T-15710 | Hip joint | HIP |
| T-12410 | Humerus | HUMERUS |
| T-4942A | Hunterian perforating vein | |
| T-D4240 | Hypogastric region | |
| T-D161E | Submental | |
| T-55300 | Hypopharynx | |
| T-58600 | Ileum | ILEUM |
| T-41068 | Iliac and/or femoral artery | |
| T-46700 | Iliac artery | |
| T-12340 | Ilium | ILIUM |
| T-48470 | Inferior cardiac vein | |
| T-48540 | Inferior left pulmonary vein | |
| T-46520 | Inferior mesenteric artery | |
| T-48520 | Inferior right pulmonary vein | |
| T-48710 | Inferior vena cava | |
| T-D7000 | Inguinal region | |
| T-46010 | Innominate artery | |
| T-48620 | Innominate vein | |
| T-AB959 | Internal Auditory Canal | IAC |
| T-45300 | Internal carotid artery | |
| T-46740 | Internal iliac artery | |
| T-48170 | Internal jugular vein | |
| T-46200 | Internal mammary artery | |
| T-D4010 | Intra-abdominal | |
| G-A15A | Intra-articular | |
| T-56000 | Intra-esophageal | |
| T-D6221 | Intra-pelvic | |
| T-D3000 | Intra-thoracic | |
| T-D1400 | Intracranial | |
| T-D1213 | Jaw region | JAW |
| T-58400 | Jejunum | JEJUNUM |
| T-15001 | Joint | |
| D4-31052 | Juxtaposed atrial appendage | |
| T-71000 | Kidney | KIDNEY |

| SNOMED Code Value | Code Meaning | Body Part Examined |
|-------------------|---------------------------------|--------------------|
| T-D9200 | Knee | KNEE |
| T-45410 | Lacrimal artery | |
| T-45416 | Lacrimal artery of right eye | |
| T-59000 | Large intestine | |
| T-24100 | Larynx | LARYNX |
| T-32300 | Left atrium | |
| T-32310 | Left auricular appendage | |
| T-47420 | Left femoral artery | |
| T-D4211 | Left hypochondriac region | |
| T-D7020 | Left inguinal region | |
| T-D4140 | Left lower quadrant of abdomen | |
| T-D2340 | Left lumbar region | |
| T-44400 | Left pulmonary artery | |
| T-D4130 | Left upper quadrant of abdomen | |
| T-32600 | Left ventricle | |
| T-32640 | Left ventricle inflow | |
| D4-31022 | Left ventricle outflow chamber | |
| T-32650 | Left ventricle outflow tract | |
| T-45230 | Lingual artery | |
| T-62000 | Liver | LIVER |
| T-04003 | Lower inner quadrant of breast | |
| T-D9400 | Lower leg | LEG |
| T-04005 | Lower outer quadrant of breast | |
| T-46960 | Lumbar artery | |
| T-D2300 | Lumbar region | |
| T-11503 | Lumbar spine | LSPINE |
| T-D00F9 | Lumbo-sacral spine | LSSPINE |
| T-40230 | Lumen of blood vessel | |
| T-28000 | Lung | LUNG |
| T-11180 | Mandible | JAW |
| T-11133 | Mastoid bone | |
| T-11170 | Maxilla | MAXILLA |
| T-D3300 | Mediastinum | MEDIASTINUM |
| T-46500 | Mesenteric artery | |
| T-4884A | Mesenteric vein | |
| T-51000 | Mouth | MOUTH |
| T-11149 | Nasal bone | |
| T-2300C | Nasopharynx | |
| T-D1600 | Neck | NECK |
| R-FAB52 | Neck and Chest | NECKCHEST |
| R-FAB53 | Neck, Chest and Abdomen | NECKCHESTABDOMEN |
| R-FAB54 | Neck, Chest, Abdomen and Pelvis | NECKCHESTABDPelv |

| SNOMED Code Value | Code Meaning | Body Part Examined |
|-------------------|---------------------------------------|--------------------|
| T-21000 | Nose | NOSE |
| T-45250 | Occipital artery | |
| T-48214 | Occipital vein | |
| T-D4450 | Omental bursa | |
| T-D4600 | Omentum | |
| T-45400 | Ophthalmic artery | |
| T-11102 | Optic canal | |
| T-D14AE | Orbital structure | ORBIT |
| T-87000 | Ovary | OVARY |
| T-65000 | Pancreas | PANCREAS |
| T-65010 | Pancreatic duct | |
| T-65600 | Pancreatic duct and bile duct systems | |
| T-22000 | Paranasal sinus | |
| T-D3136 | Parasternal | |
| T-B7000 | Parathyroid | |
| T-61100 | Parotid gland | PAROTID |
| T-12730 | Patella | PATELLA |
| D4-32012 | Patent ductus arteriosus | |
| T-D6000 | Pelvis | PELVIS |
| R-FAB58 | Pelvis and lower extremities | |
| T-91000 | Penis | PENIS |
| T-D2700 | Perineum | |
| T-47630 | Peroneal artery | |
| T-55000 | Pharynx | PHARYNX |
| T-20101 | Pharynx and larynx | |
| T-47500 | Popliteal artery | |
| T-D9310 | Popliteal fossa | |
| T-48810 | Portal vein | |
| T-45320 | Posterior communicating artery | |
| T-49535 | Posterior medial tributary | |
| T-47600 | Posterior tibial artery | |
| T-F7001 | Primitive aorta | |
| T-F7040 | Primitive pulmonary artery | |
| T-9200B | Prostate | PROSTATE |
| T-44000 | Pulmonary artery | |
| D4-33142 | Pulmonary artery conduit | |
| T-32190 | Pulmonary chamber of cor triatriatum | |
| T-48581 | Pulmonary vein | |
| D4-33512 | Pulmonary vein confluence | |
| D4-33514 | Pulmonary venous atrium | |
| T-47300 | Radial artery | |
| T-12420 | Radius | RADIUS |

| SNOMED Code Value | Code Meaning | Body Part Examined |
|-------------------|--|--------------------|
| T-12403 | Radius and ulna | RADIUSULNA |
| T-59600 | Rectum | RECTUM |
| T-46600 | Renal artery | |
| T-72000 | Renal pelvis | |
| T-48740 | Renal vein | |
| T-D4900 | Retroperitoneum | |
| T-11300 | Rib | RIB |
| T-32200 | Right atrium | |
| T-32210 | Right auricular appendage | |
| T-47410 | Right femoral artery | |
| T-D4212 | Right hypochondriac region | |
| T-D7010 | Right inguinal region | |
| T-D4120 | Right lower quadrant of abdomen | |
| T-D2342 | Right lumbar region | |
| T-44200 | Right pulmonary artery | |
| T-D4110 | Right upper quadrant of abdomen | |
| T-32500 | Right ventricle | |
| T-32540 | Right ventricle inflow | |
| D4-31032 | Right ventricle outflow chamber | |
| T-32550 | Right ventricle outflow tract | |
| T-15680 | Sacroiliac joint | |
| T-11AD0 | Sacrum | SSPINE |
| T-D930A | Saphenofemoral junction | |
| T-49530 | Saphenous vein | |
| T-D1160 | Scalp | SCALP |
| T-12280 | Scapula | SCAPULA |
| T-AA110 | Sclera | SCLERA |
| T-98000 | Scrotum | SCROTUM |
| T-D1460 | Sella turcica | |
| T-12980 | Sesamoid bones of foot | |
| T-D2220 | Shoulder | SHOULDER |
| T-59470 | Sigmoid colon | |
| T-11100 | Skull | SKULL |
| T-58000 | Small intestine | |
| T-A7010 | Spinal cord | |
| T-D04FF | Spine | SPINE |
| T-C3000 | Spleen | SPLEEN |
| T-46460 | Splenic artery | |
| T-48890 | Splenic vein | |
| T-15610 | Sternoclavicular joint | |
| T-11210 | Sternum | STERNUM |
| T-57000 | Stomach | STOMACH |

| SNOMED Code Value | Code Meaning | Body Part Examined |
|-------------------|------------------------------------|--------------------|
| T-46100 | Subclavian artery | |
| T-48330 | Subclavian vein | |
| T-D4210 | Subcostal | |
| T-D1603 | Submandibular area | |
| T-61300 | Submandibular gland | SUBMANDIBULAR |
| T-D3213 | Subxiphoid | |
| T-45270 | Superficial temporal artery | |
| T-48530 | Superior left pulmonary vein | |
| T-46510 | Superior mesenteric artery | |
| T-48510 | Superior right pulmonary vein | |
| T-45210 | Superior thyroid artery | |
| T-48610 | Superior vena cava | |
| T-D1620 | Supraclavicular region of neck | |
| T-D4240 | Suprapubic region | |
| T-11218 | Suprasternal notch | |
| T-44007 | Systemic collateral artery to lung | |
| D4-33516 | Systemic venous atrium | |
| T-15770 | Tarsal joint | |
| T-15290 | Temporomandibular joint | TMJ |
| T-94000 | Testis | TESTIS |
| T-D9100 | Thigh | THIGH |
| T-42070 | Thoracic aorta | |
| T-11502 | Thoracic spine | TSPINE |
| T-D00F8 | Thoraco-lumbar spine | TLSPINE |
| T-D3000 | Thorax | |
| T-D8810 | Thumb | THUMB |
| T-C8000 | Thymus | THYMUS |
| T-B6000 | Thyroid | THYROID |
| T-12740 | Tibia | TIBIA |
| T-12701 | Tibia and fibula | TIBIAFIBULA |
| T-D9800 | Toe | TOE |
| T-53000 | Tongue | TONGUE |
| T-25000 | Trachea | TRACHEA |
| T-DD006 | Trachea and bronchus | |
| D4-31400 | Truncus arteriosus communis | |
| T-46400 | Truncus coeliacus | |
| T-12430 | Ulna | ULNA |
| T-47200 | Ulnar artery | |
| T-F1810 | Umbilical artery | |
| T-D4230 | Umbilical region | |
| T-48817 | Umbilical vein | |
| T-D8200 | Upper arm | ARM |

| SNOMED Code Value | Code Meaning | Body Part Examined |
|-------------------|--------------------------------|--------------------|
| T-04002 | Upper inner quadrant of breast | |
| T-04004 | Upper outer quadrant of breast | |
| T-7000B | Upper urinary tract | |
| T-73000 | Ureter | URETER |
| T-75000 | Urethra | URETHRA |
| T-83000 | Uterus | UTERUS |
| T-88920 | Uterus and fallopian tubes | |
| T-82000 | Vagina | VAGINA |
| A-04140 | Vascular graft | |
| T-48000 | Vein | |
| T-48003 | Venous network | |
| T-32400 | Ventricle | |
| T-45700 | Vertebral artery | |
| T-11011 | Vertebral column and cranium | |
| T-81000 | Vulva | VULVA |
| T-15460 | Wrist joint | WRIST |
| T-11166 | Zygoma | ZYGOMA |

Note

In prior versions of this table, different codes were used for some concepts; see PS3.16-2011.

Table L-2. Corresponding SNOMED Terms for Large Animals

| SNOMED Code Value | Code Meaning | Body Part Examined |
|-------------------|-------------------------|--------------------|
| T-D4000 | Abdomen | ABDOMEN |
| T-D8030 | All legs | LEGS |
| T-1531B | Atlantal-axial joint | ATLANTOAXIAL |
| T-15311 | Atlanto-occipital joint | ATLANTOOCIPITAL |
| T-74000 | Bladder | BLADDER |
| T-12771 | Calcaneal tubercle | |
| T-D8600 | Carpus | CARPUS |
| T-11501 | Cervical spine | CSPINE |
| T-D00F7 | Cervico-thoracic spine | CTSPINE |
| T-D3000 | Chest | CHEST |
| R-FAB55 | Chest and Abdomen | CHESTABDOMEN |
| T-11B02 | Coccygeal vertebrae | TAIL |
| T-59300 | Colon | COLON |
| T-D0310 | Digit | DIGIT |
| T-110A2 | Distal phalanx | DISTALPHALANX |
| T-15430 | Elbow joint | ELBOW |
| T-D0010 | Entire body | WHOLEBODY |
| T-56000 | Esophagus | ESOPHAGUS |
| T-12710 | Femur | FEMUR |

| SNOMED Code Value | Code Meaning | Body Part Examined |
|-------------------|-------------------------------|--------------------|
| T-D8640 | Fetlock of forelimb | FOREFETLOCK |
| T-D9540 | Fetlock of hindlimb | HINDFETLOCK |
| T-12750 | Fibula | FIBULA |
| T-D04F2 | Forefoot | FOREFOOT |
| T-22200 | Frontal sinus | FRONTALSINUS |
| T-D9713 | Hindfoot | HINDFOOT |
| T-15710 | Hip joint | HIP |
| T-12410 | Humerus | HUMERUS |
| T-11503 | Lumbar spine | LSPINE |
| T-D00F9 | Lumbo-sacral spine | LSSPINE |
| T-11180 | Mandible | JAW |
| T-54170 | Mandibular dental arch | |
| T-540EE | Mandibular incisor teeth | |
| T-54160 | Maxillary dental arch | |
| T-540ED | Maxillary incisor teeth | |
| T-1254D | Metacarpus | METACARPUS |
| T-12847 | Metatarsus | METATARSUS |
| T-22000 | Nasal sinus | |
| T-12450 | Navicular of forefoot | FORENAVICULAR |
| T-127EC | Navicular of hindfoot | HINDNAVICULAR |
| T-D14AD | Orbital region | |
| T-D8650 | Pastern of forefoot | FOREPASTERN |
| T-D9550 | Pastern of hindfoot | HINDPASTERN |
| T-12730 | Patella | PATELLA |
| T-D6000 | Pelvis | PELVIS |
| T-12420 | Radius | RADIUS |
| T-12403 | Radius and ulna | RADIUSULNA |
| T-11AD0 | Sacrum | SSPINE |
| T-D2220 | Shoulder | SHOULDER |
| T-11100 | Skull | SKULL |
| T-15728 | Stifle | STIFLE |
| T-12761 | Tarsus | TARSUS |
| T-11502 | Thoracic spine | TSPINE |
| T-D00F8 | Thoraco-lumbar spine | TLSPINE |
| T-12740 | Tibia | TIBIA |
| T-12701 | Tibia and fibula | TIBIAFIBULA |
| T-50110 | Upper gastro-intestinal tract | UGITRACT |
| T-12430 | Ulna | ULNA |
| T-75000 | Urethra | URETHRA |
| T-7000C | Urinary tract | URINARYTRACT |
| T-D8040 | Wing | WING |

Note

In prior versions of this table, different codes were used for some concepts; see PS3.16-2011.

Table L-3. Corresponding Codes for Small Animal Use

| SNOMED Code Value | Code Meaning | Body Part Examined | SNOMED-CT Concept ID | FMA ID | Mouse Anatomy ID | NCIt ID | Uberon ID | UMLS Concept UniqueID |
|-------------------|-----------------------|--------------------|----------------------|--------|------------------|---------|-----------|-----------------------|
| T-B3000 | Adrenal gland | ADRENAL | 23451007 | 9604 | 0000116 | C12666 | 0002369 | C0001625 |
| T-15750 | Ankle joint | ANKLE | 70258002 | 35195 | 0000463 | C32078 | 0001488 | C0003087 |
| T-42000 | Aorta | AORTA | 15825003 | 3734 | 0000062 | C12669 | 0000947 | C0003483 |
| T-74000 | Bladder | BLADDER | 89837001 | 15900 | 0000380 | C12414 | 0001255 | C0005682 |
| T-A0100 | Brain | BRAIN | 12738006 | 50801 | 0000168 | C12439 | 0000955 | C0006104 |
| T-04000 | Breast | BREAST | 76752008 | 57983 | 0000145 | C12367 | 0001911 | C0929301 |
| T-26000 | Bronchus | BRONCHUS | 955009 | 7409 | 0000436 | C12683 | 0002185 | C0006255 |
| T-D1206 | Buccal region of face | CHEEK | 60819002 | 46476 | 0002475 | C13070 | 0001567 | C0007966 |
| T-12770 | Calcaneus | CALCANEUS | 80144004 | 24496 | 0001348 | C32250 | 0001450 | C0006655 |
| T-45010 | Carotid Artery | CAROTID | 69105007 | | 0001925 | C12687 | 0005396 | C0007272 |
| T-A6000 | Cerebellum | CEREBELLUM | 113305005 | 67944 | 0000198 | C12445 | 0002037 | C0007765 |
| T-83200 | Cervix | CERVIX | 71252005 | 17740 | 0000392 | C12311 | 0000002 | C0007874 |
| T-12310 | Clavicle | CLAVICLE | 51299004 | 13321 | 0001329 | C12695 | 0001105 | C0008913 |
| T-11BF0 | Coccyx | COCCYX | 64688005 | 20229 | 0001420 | C12696 | 0001095 | C0009194 |
| T-59300 | Colon | COLON | 71854001 | 14543 | 0000335 | C12382 | 0001155 | C0009368 |
| T-AA200 | Cornea | CORNEA | 28726007 | 58238 | 0000266 | C12342 | 0000964 | C0010031 |
| T-43000 | Coronary artery | CORONARYARTERY | 41801008 | 49893 | 0002453 | C12843 | 0001621 | C0205042 |
| T-D0310 | Digit | DIGIT | 82680008 | 85518 | 0000690 | C40186 | 0002544 | C0582802 |
| T-58200 | Duodenum | DUODENUM | 38848004 | 7206 | 0000338 | C12263 | 0002114 | C0013303 |
| T-15430 | Elbow joint | ELBOW | 16953009 | 35289 | 0000451 | C32497 | 0001490 | C0013770 |
| T-56000 | Esophagus | ESOPHAGUS | 32849002 | 7131 | 0000352 | C12389 | 0001043 | C0014876 |
| T-D0300 | Extremity | EXTREMITY | 66019005 | 7182 | 0000007 | C12429 | 0002101 | C0015385 |
| T-AA000 | Eye | EYE | 81745001 | 54448 | 0000261 | C12401 | 0000019 | C0015392 |
| T-AA810 | Eyelid | EYELID | 80243003 | 54437 | 0000268 | C12713 | 0001711 | C0015426 |
| T-D1200 | Face | FACE | 89545001 | 24728 | 0002473 | C13071 | 0001456 | C0015450 |
| T-12710 | Femur | FEMUR | 71341001 | 9611 | 0001359 | C12717 | 0000981 | C0015811 |
| T-12750 | Fibula | FIBULA | 87342007 | 24479 | 0001360 | C12718 | 0001446 | C0016068 |
| T-D8800 | Finger | FINGER | 7569003 | 9666 | 0000041 | C32608 | 0002389 | C0016129 |
| T-D9700 | Foot | FOOT | 56459004 | 9664 | 0000044 | C32622 | 0002387 | C0016504 |
| T-22200 | Frontal sinus | FRONTALSINUS | 55060009 | 57417 | 0001793 | C12277 | 0001760 | C0016734 |
| T-63000 | Gallbladder | GALLBLADDER | 28231008 | 7202 | 0000356 | C12377 | 0002110 | C0016976 |
| T-D8700 | Hand | HAND | 85562004 | 9712 | 0000037 | C32712 | 0002398 | C0018563 |
| T-D1100 | Head | HEAD | 69536005 | 7154 | 0000023 | C12419 | 0000033 | C0018670 |
| T-D1000 | Head and Neck | HEADNECK | 774007 | | 0000006 | C12418 | 0007811 | C0460004 |
| T-32000 | Heart | HEART | 80891009 | 7088 | 0000072 | C12727 | 0000948 | C0018787 |
| T-15710 | Hip joint | HIP | 24136001 | 35178 | 0000470 | C32742 | 0001486 | C0019558 |

| SNOMED Code Value | Code Meaning | Body Part Examined | SNOMED-CT Concept ID | FMA ID | Mouse Anatomy ID | NCIt ID | Uberon ID | UMLS Concept UniqueID |
|-------------------|-------------------------|--------------------|----------------------|--------|------------------|---------|-----------|-----------------------|
| T-12410 | Humerus | HUMERUS | 85050009 | 13303 | 0001356 | C12731 | 0000976 | C0020164 |
| T-58600 | Ileum | ILEUM | 34516001 | 7208 | 0000339 | C12387 | 0002116 | C0020885 |
| T-12340 | Ilium | ILIUM | 22356005 | 16589 | 0001336 | C32765 | 0001273 | C0020889 |
| T-D1213 | Jaw region | JAW | 661005 | 54396 | 0001905 | C48821 | 0001708 | C0022359 |
| T-58400 | Jejunum | JEJUNUM | 21306003 | 7207 | 0000340 | C12388 | 0002115 | C0022378 |
| T-71000 | Kidney | KIDNEY | 64033007 | 7203 | 0000368 | C12415 | 0002113 | C0022646 |
| T-62000 | Liver | LIVER | 10200004 | 7197 | 0000358 | C12392 | 0002107 | C0023884 |
| T-D9400 | Lower leg | LEG | 30021000 | 24979 | 0000047 | C32974 | 0000978 | C1140621 |
| T-28000 | Lung | LUNG | 39607008 | 7195 | 0000415 | C12468 | 0002048 | C0024109 |
| T-11180 | Mandible | JAW | 91609006 | 52748 | 0001487 | C12290 | 0001684 | C0024687 |
| T-11170 | Maxilla | MAXILLA | 70925003 | 9711 | 0001491 | C26470 | 0002397 | C0024947 |
| T-12450 | Navicular of forefoot | FORENAVICULAR | 30518006 | 33311 | 0002555 | C12854 | 0001427 | C0223724 |
| T-D1600 | Neck | NECK | 45048000 | 7155 | 0000024 | C13063 | 0000974 | C0027530 |
| T-D14AE | Orbital structure | ORBIT | 363654007 | 53074 | 0002482 | C12347 | 0001697 | C0029180 |
| T-87000 | Ovary | OVARY | 15497006 | 7209 | 0000384 | C12404 | 0000992 | C0029939 |
| T-65000 | Pancreas | PANCREAS | 15776009 | 7198 | 0000120 | C12393 | 0001264 | C0030274 |
| T-61100 | Parotid gland | PAROTID | 45289007 | 59790 | 0001585 | C12427 | 0001831 | C0030580 |
| T-12730 | Patella | PATELLA | 64234005 | 24485 | 0001374 | C33282 | 0002446 | C0030647 |
| T-D6000 | Pelvis | PELVIS | 12921003 | 9578 | 0000030 | C12767 | 0002355 | C0030797 |
| T-91000 | Penis | PENIS | 18911002 | 9707 | 0000408 | C12409 | 0000989 | C0030851 |
| T-55000 | Pharynx | PHARYNX | 54066008 | 46688 | 0000432 | C12425 | 0001042 | C0031354 |
| T-12420 | Radius | RADIUS | 62413002 | 23463 | 0001357 | C12777 | 0001423 | C0034627 |
| T-59600 | Rectum | RECTUM | 34402009 | 14544 | 0000336 | C12390 | 0001052 | C0034896 |
| T-11300 | Rib | RIB | 113197003 | 7574 | 0000315 | C12782 | 0002228 | C0035561 |
| T-12280 | Scapula | SCAPULA | 79601000 | 13394 | 0001330 | C12783 | 0006849 | C0036277 |
| T-AA110 | Sclera | SCLERA | 18619003 | 58269 | 0000280 | C12784 | 0001773 | C0036410 |
| T-98000 | Scrotum | SCROTUM | 20233005 | 18252 | 0000409 | C12785 | 0001300 | C0036471 |
| T-D2220 | Shoulder | SHOULDER | 16982005 | 25202 | 0000038 | C25203 | 0001467 | C0037004 |
| T-11100 | Skull | SKULL | 89546000 | 46565 | 0000316 | C12789 | 0003128 | C0037303 |
| T-C3000 | Spleen | SPLEEN | 78961009 | 7196 | 0000141 | C12432 | 0002106 | C0037993 |
| T-11210 | Sternum | STERNUM | 56873002 | 7485 | 0001331 | C12793 | 0000975 | C0038293 |
| T-15290 | Temporomandibular joint | TMJ | 53620006 | 54832 | 0002899 | C32888 | 0003700 | C0039493 |
| T-94000 | Testis | TESTIS | 40689003 | 7210 | 0000411 | C12412 | 0000473 | C0039597 |
| T-D9100 | Thigh | THIGH | 68367000 | 24967 | 0000052 | C33763 | 0000376 | C0039866 |
| T-D8810 | Thumb | THUMB | 76505004 | 24938 | 0000454 | C52834 | 0001463 | C0040067 |
| T-C8000 | Thymus | THYMUS | 9875009 | 9607 | 0000142 | C12433 | 0002370 | C0040113 |
| T-B6000 | Thyroid | THYROID | 69748006 | 9603 | 0000129 | C12400 | 0002046 | C0040132 |
| T-12740 | Tibia | TIBIA | 12611008 | 24476 | 0001361 | C12800 | 0000979 | C0040184 |
| T-D9800 | Toe | TOE | 29707007 | 25046 | 0000048 | C33788 | 0001466 | C0040357 |

| SNOMED Code Value | Code Meaning | Body Part Examined | SNOMED-CT Concept ID | FMA ID | Mouse Anatomy ID | NCIt ID | Uberon ID | UMLS Concept UniqueID |
|-------------------|--------------|--------------------|----------------------|--------|------------------|---------|-----------|-----------------------|
| T-53000 | Tongue | TONGUE | 21974007 | 54640 | 0000347 | C12422 | 0001723 | C0040408 |
| T-12430 | Ulna | ULNA | 23416004 | 23466 | 0001358 | C12809 | 0001424 | C0041600 |
| T-D8200 | Upper arm | ARM | 40983000 | 24890 | 0000033 | C32141 | 0001460 | C0446516 |
| T-73000 | Ureter | URETER | 87953007 | 9704 | 0000378 | C12416 | 0000056 | C0041951 |
| T-75000 | Urethra | URETHRA | 13648007 | 19667 | 0000379 | C12417 | 0000057 | C0041967 |
| T-83000 | Uterus | UTERUS | 35039007 | 17558 | 0000389 | C12405 | 0000995 | C0042149 |
| T-82000 | Vagina | VAGINA | 76784001 | 19949 | 0000394 | C12407 | 0000996 | C0042232 |
| T-81000 | Vulva | VULVA | 45292006 | 20462 | 0000395 | C12408 | 0000997 | C0042993 |

Note

Since the Adult Mouse Anatomy Ontology is not in the UMLS, the mapping of Mouse Anatomy codes described here is an extract of a mapping to the NCI Thesaurus described in Hayamizu TF, de Coronado S, Fragoso G, Sioutos N, Kadin JA, Ringwald M. The mouse-human anatomy ontology mapping project. Database: The Journal of Biological Databases and Curation 2012;2012:bar066. doi:10.1093/database/bar066. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3308156/>. The mapping files used can be found at <ftp://ftp.informatics.jax.org/pub/reports/ma2ncit.obo>.

The NCI Thesaurus codes were then used to look up corresponding concepts in UMLS, from which SNOMED and FMA codes were extracted automatically (and various conflicts and ambiguities resolved manually). The same correspondence to existing Body Part Examined values is used as in other tables in this Annex.

Another mapping project using the FMA as a reference ontology was not used, since the files were not available. See Zhang S, Bodenreider O. Alignment of Multiple Ontologies of Anatomy: Deriving Indirect Mappings from Direct Mappings to a Reference. AMIA Annual Symposium Proceedings 2005;2005:864-868 <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1560629/>.

Table L-4. Correspondence between Animal-specific and Generic NCI Thesaurus Codes

| Code Meaning | Generic NCIt ID | Generic UMLS Concept UniqueID | Mouse-specific NCIt ID | Mouse-specific UMLS Concept UniqueID | Rat-specific NCIt ID | Rat-specific UMLS Concept UniqueID |
|-----------------------|-----------------|-------------------------------|------------------------|--------------------------------------|----------------------|------------------------------------|
| Adrenal gland | C12666 | C0001625 | C22635 | C1515888 | C60540 | C1882555 |
| Ankle joint | C32078 | C0003087 | | | | |
| Aorta | C12669 | C0003483 | C23600 | | C60541 | C1882561 |
| Bladder | C12414 | C0005682 | C22729 | C1511191 | C60634 | C1882899 |
| Brain | C12439 | C0006104 | C22606 | C1521713 | C60544 | C1882598 |
| Breast | C12367 | C0929301 | C22549 | C1512980 | C60585 | C1882771 |
| Bronchus | C12683 | C0006255 | C24050 | C1518036 | C60546 | C1882603 |
| Buccal region of face | C13070 | C0007966 | C23972 | | | |
| Calcaneus | C32250 | C0006655 | | | | |
| Carotid Artery | C12687 | C0007272 | C23618 | | | |
| Cerebellum | C12445 | C0007765 | C22609 | C1522278 | C60550 | C1882617 |
| Cervix | C12311 | C0007874 | | | C60635 | C1882903 |
| Clavicle | C12695 | C0008913 | C23626 | | | |
| Coccyx | C12696 | C0009194 | | | | |
| Colon | C12382 | C0009368 | C22528 | C1522281 | C60554 | C1882628 |
| Cornea | C12342 | C0010031 | C22717 | C2700413 | | |

| Code Meaning | Generic NCIt ID | Generic UMLS Concept UniqueID | Mouse-specific NCIt ID | Mouse-specific UMLS Concept UniqueID | Rat-specific NCIt ID | Rat-specific UMLS Concept UniqueID |
|-----------------------|-----------------|-------------------------------|------------------------|--------------------------------------|----------------------|------------------------------------|
| Coronary artery | C12843 | C0205042 | C23773 | | | |
| Digit | C40186 | C0582802 | | | | |
| Duodenum | C12263 | C0013303 | C22523 | C1522711 | C60558 | C1882648 |
| Elbow joint | C32497 | C0013770 | | | | |
| Esophagus | C12389 | C0014876 | C22509 | C1516967 | C60563 | C1882662 |
| Extremity | C12429 | C0015385 | C23363 | | | |
| Eye | C12401 | C0015392 | C22711 | C1517081 | C60565 | C1882665 |
| Eyelid | C12713 | C0015426 | C23644 | | C60566 | C1882666 |
| Face | C13071 | C0015450 | C23973 | | | |
| Femur | C12717 | C0015811 | C23648 | | C60567 | C1882669 |
| Fibula | C12718 | C0016068 | C23649 | | | |
| Finger | C32608 | C0016129 | | | | |
| Foot | C32622 | C0016504 | | | | |
| Frontal sinus | C12277 | C0016734 | C23210 | | | |
| Gallbladder | C12377 | C0016976 | C23312 | | | |
| Hand | C32712 | C0018563 | | | | |
| Head | C12419 | C0018670 | C23353 | | | |
| Head and Neck | C12418 | C0460004 | C23352 | | | |
| Heart | C12727 | C0018787 | C22498 | C1512359 | C60571 | C1882687 |
| Hip joint | C32742 | C0019558 | | | | |
| Humerus | C12731 | C0020164 | C23662 | | | |
| Ileum | C12387 | C0020885 | C22525 | C1522516 | C60573 | C1882700 |
| Ilium | C32765 | C0020889 | | | | |
| Jaw region | C48821 | C0022359 | C22683 | C1511239 | | |
| Jejunum | C12388 | C0022378 | C22524 | C1522714 | C60575 | C1882710 |
| Kidney | C12415 | C0022646 | C22730 | C1517673 | C60577 | C1882714 |
| Liver | C12392 | C0023884 | C22515 | C1517914 | C60581 | C1882726 |
| Lower leg | C32974 | C1140621 | | | | |
| Lung | C12468 | C0024109 | C22600 | C1518039 | C60582 | C1882727 |
| Mandible | C12290 | C0024687 | C23223 | | | |
| Maxilla | C26470 | C0024947 | | | | |
| Navicular of forefoot | C12854 | C0223724 | | | | |
| Neck | C13063 | C0027530 | C23965 | | | |
| Orbital structure | C12347 | C0029180 | C23282 | | C60594 | C1882803 |
| Ovary | C12404 | C0029939 | C22656 | C1518753 | C60595 | C1882808 |
| Pancreas | C12393 | C0030274 | C24044 | C1518865 | C60597 | C1882810 |
| Parotid gland | C12427 | C0030580 | C22504 | C1527051 | C60600 | C1882814 |
| Patella | C33282 | C0030647 | | | | |
| Pelvis | C12767 | C0030797 | C23698 | | | |

| Code Meaning | Generic NCIt ID | Generic UMLS Concept UniqueID | Mouse-specific NCIt ID | Mouse-specific UMLS Concept UniqueID | Rat-specific NCIt ID | Rat-specific UMLS Concept UniqueID |
|-------------------------|-----------------|-------------------------------|------------------------|--------------------------------------|----------------------|------------------------------------|
| Penis | C12409 | C0030851 | C22172 | C1518951 | | |
| Pharynx | C12425 | C0031354 | C22507 | C1519041 | | |
| Radius | C12777 | C0034627 | C23708 | | | |
| Rectum | C12390 | C0034896 | C22532 | C1522513 | C60609 | C1882833 |
| Rib | C12782 | C0035561 | C23713 | | | |
| Scapula | C12783 | C0036277 | C23714 | | | |
| Sclera | C12784 | C0036410 | C23715 | | | |
| Scrotum | C12785 | C0036471 | C22176 | C1519206 | | |
| Shoulder | C25203 | C0037004 | | | | |
| Skull | C12789 | C0037303 | C22684 | C1522418 | | |
| Spleen | C12432 | C0037993 | C22556 | C1519474 | C60621 | C1882867 |
| Sternum | C12793 | C0038293 | C23724 | | C60622 | C1882873 |
| Temporomandibular joint | C32888 | C0039493 | | | | |
| Testis | C12412 | C0039597 | C22178 | C1515315 | C60625 | C1882878 |
| Thigh | C33763 | C0039866 | | | | |
| Thumb | C52834 | C0040067 | | | | |
| Thymus | C12433 | C0040113 | C22553 | C1515438 | C60627 | C1882880 |
| Thyroid | C12400 | C0040132 | C22650 | C1522142 | C60628 | C1882881 |
| Tibia | C12800 | C0040184 | C23731 | | | |
| Toe | C33788 | C0040357 | | | | |
| Tongue | C12422 | C0040408 | C22508 | C1519545 | C60629 | C1882882 |
| Ulna | C12809 | C0041600 | C23740 | | | |
| Upper arm | C32141 | C0446516 | | | | |
| Ureter | C12416 | C0041951 | C22738 | C1519822 | C60632 | C1882897 |
| Urethra | C12417 | C0041967 | C22739 | C1519824 | C60633 | C1882898 |
| Uterus | C12405 | C0042149 | C22671 | C1519876 | C60636 | C1882904 |
| Vagina | C12407 | C0042232 | C22676 | C1519910 | C60637 | C1882906 |
| Vulva | C12408 | C0042993 | C22677 | C1520067 | | |

Note

For the mouse, NCIt contains some duplicate anatomical concepts, including those which have been marked inactive and appear to have been replaced with improved codes for the "Mouse Models of Human Cancers Consortium" (MMHCC). Whenever duplicates were found, the MMHCC concept has been used in this table.

This table was produced by searching NCIt for all concepts that had "mouse" or "rat" in their concept name or synonyms, and then using that synonym with the word "mouse" or "rat" removed, to match against generic concept names.

The NCI Thesaurus codes were then used to look up corresponding concepts in UMLS, though not all of the concepts are included in UMLS yet (especially the MMHCC concepts).

M German Language Meanings of Selected Codes Used in The DCMR (Normative)

Table M-1. German Language Meanings of Selected Codes

| Coding Scheme Designator | Code Value | Code Meaning English Language | Code Meaning German Language |
|---------------------------------|-------------------|---|-------------------------------------|
| LN | 11528-7 | Radiology Report | Radiologischer Befundbericht |
| LN | 55114-3 | Prior Procedure Descriptions | Frühere Untersuchungen |
| SCT | 364320009 | Pregnancy observable | Schwangerschaft |
| LN | 18785-6 | Indications for Procedure | Indikationen für die Untersuchung |
| DCM | 123014 | Target Region | Körperregion |
| LN | 55111-9 | Current Procedure Descriptions | Untersuchungstechnik |
| DCM | 111060 | Study Date | Datum der Untersuchung |
| DCM | 111061 | Study Time | Zeitpunkt der Untersuchung |
| DCM | 110180 | Study Instance UID | Study Instance UID |
| LN | 11329-0 | History | Krankengeschichte |
| LN | 55115-0 | Request | Fragestellung |
| DCM | 121071 | Finding | Beschreibung |
| LN | 19005-8 | Impressions | Wertungen |
| DCM | 121075 | Recommendation | Empfehlung |
| DCM | 113850 | Irradiation Authorizing | Indikationsstellender Arzt |
| DCM | 113921 | Radiation Exposure | Strahlenexposition |
| SCT | 440252007 | Administration of radiopharmaceutical | Verabreichter radioaktiver Stoff |
| DCM | 113923 | Radiation Exposure and Protection Information | Informationen zum Strahlenschutz |

N Externally Defined Value Sets (Informative)

This annex identifies those Value Sets defined externally to the DICOM Standard that are referenced by the Standard. These value sets are reproduced here for reference only, and might not be the current version.

These value sets use codes from various coding schemes or code systems, as identified in Section 8.

N.1 HL7 Value Sets

HL7 Value Sets are reproduced with the permission of HL7 International. For the current version of HL7 Value Sets, see the HL7v3 Normative Edition (http://www.hl7.org/implement/standards/product_brief.cfm?product_id=186).

Table N.1-1. HL7 Value Sets

| Value Set Name | OID | Notes |
|----------------------------|----------------------------|------------------------|
| ActPriority | 2.16.840.1.113883.11.16866 | |
| AdministrativeGender | 2.16.840.1.113883.11.1 | |
| HumanLanguages | 2.16.840.1.113883.11.11526 | Equivalent to CID 5000 |
| ImageMediaType | 2.16.840.1.113883.11.14839 | |
| NullFlavor | 2.16.840.1.113883.11.10609 | |
| ObservationInterpretation | 2.16.840.1.113883.11.78 | |
| x_BasicConfidentialityKind | 2.16.840.1.113883.11.16926 | |
| x_serviceEventPerformer | 2.16.840.1.113883.11.19601 | |

N.1.1 ActPriority Value Set

Value Set: ActPriority 2.16.840.1.113883.11.16866
Code System(s): ActPriority 2.16.840.1.113883.5.7

Table N.1.1-1. ActPriority Value Set

| Code | Code System | Print Name |
|------|-------------|----------------------------------|
| A | ActPriority | ASAP |
| CR | ActPriority | Callback results |
| CS | ActPriority | Callback for scheduling |
| CSP | ActPriority | Callback placer for scheduling |
| CSR | ActPriority | Contact recipient for scheduling |
| EL | ActPriority | Elective |
| EM | ActPriority | Emergency |
| P | ActPriority | Preoperative |
| PRN | ActPriority | As needed |
| R | ActPriority | Routine |
| RR | ActPriority | Rush reporting |
| S | ActPriority | Stat |
| T | ActPriority | Timing critical |
| UD | ActPriority | Use as directed |
| UR | ActPriority | Urgent |

N.1.2 AdministrativeGender Value Set

Value Set: AdministrativeGender 2.16.840.1.113883.11.1

Code System(s): AdministrativeGender 2.16.840.1.113883.5.1

Table N.1.2-1. AdministrativeGender Value Set

| Code | Code System | Print Name |
|------|----------------------|------------------|
| F | AdministrativeGender | Female |
| M | AdministrativeGender | Male |
| UN | AdministrativeGender | Undifferentiated |

N.1.3 ImageMediaType Value Set

Value Set: HL7 ImageMediaType 2.16.840.1.113883.11.14839

Code System(s): mediaType 2.16.840.1.113883.5.79

Table N.1.3-1. ImageMediaType Value Set

| Code | Code System | Print Name |
|-------------|-------------|------------|
| image/g3fax | mediaType | g3fax |
| image/gif | mediaType | gif |
| image/jpeg | mediaType | jpeg |
| image/png | mediaType | png |
| image/tiff | mediaType | tiff |

N.1.4 NullFlavor Value Set

Value Set: HL7 NullFlavor 2.16.840.1.113883.11.10609

Code System(s): NullFlavor 2.16.840.1.113883.5.1008

Table N.1.4-1. NullFlavor Value Set

| Code | Code System | Print Name |
|------|-------------|-------------------------|
| NI | NullFlavor | No Information |
| OTH | NullFlavor | other |
| NINF | NullFlavor | negative infinity |
| PINF | NullFlavor | positive infinity |
| UNK | NullFlavor | unknown |
| ASKU | NullFlavor | asked but unknown |
| NAV | NullFlavor | temporarily unavailable |
| NASK | NullFlavor | not asked |
| TRC | NullFlavor | trace |
| MSK | NullFlavor | masked |
| NA | NullFlavor | not applicable |
| NP | NullFlavor | not present |

N.1.5 ObservationInterpretation Value Set

Value Set: HL7 ObservationInterpretation 2.16.840.1.113883.11.78

Code System(s): ObservationInterpretation 2.16.840.1.113883.5.83

Table N.1.5-1. ObservationInterpretation Value Set

| Code | Code System | Print Name |
|------|---------------------------|------------------------|
| B | ObservationInterpretation | better |
| D | ObservationInterpretation | decreased |
| U | ObservationInterpretation | increased |
| W | ObservationInterpretation | worse |
| < | ObservationInterpretation | low off scale |
| > | ObservationInterpretation | high off scale |
| A | ObservationInterpretation | Abnormal |
| AA | ObservationInterpretation | Abnormal alert |
| HH | ObservationInterpretation | High alert |
| LL | ObservationInterpretation | Low alert |
| H | ObservationInterpretation | High |
| L | ObservationInterpretation | Low |
| N | ObservationInterpretation | Normal |
| I | ObservationInterpretation | intermediate |
| MS | ObservationInterpretation | moderately susceptible |
| R | ObservationInterpretation | resistant |
| S | ObservationInterpretation | susceptible |
| VS | ObservationInterpretation | very susceptible |

N.1.6 x_BasicConfidentialityKind Value Set

Value Set: x_BasicConfidentialityKind 2.16.840.1.113883.11.16926
 Code System(s): Confidentiality 2.16.840.1.113883.5.25

Table N.1.6-1. x_BasicConfidentialityKind Value Set

| Code | Code System | Print Name |
|------|-----------------|-----------------|
| N | Confidentiality | Normal |
| R | Confidentiality | Restricted |
| V | Confidentiality | Very Restricted |

N.1.7 x_serviceEventPerformer Value Set

Value Set: HL7 x_serviceEventPerformer 2.16.840.1.113883.11.19601
 Code System(s): ParticipationType 2.16.840.1.113883.5.90

Table N.1.7-1. x_serviceEventPerformer Value Set

| Code | Code System | Print Name |
|------|-------------------|---------------------|
| PRF | ParticipationType | Performer |
| PPRF | ParticipationType | Principal performer |
| SPRF | ParticipationType | Secondary performer |

N.2 LOINC Value Sets

LOINC Value Sets are available from Regenstrief Institute, Inc. For the current version, see the LOINC web site (<http://loinc.org/oids>).

Table N.2-1. LOINC Value Sets

| Value Set Name | OID | Notes |
|------------------------------|----------------------------|----------|
| LOINC Imaging Document Codes | 1.3.6.1.4.1.12009.10.2.5 | |
| LOINC Y/N/NA | 1.3.6.1.4.1.12009.10.1.163 | LL2850-7 |

N.2.1 LOINC Imaging Document Codes (examples)

Value Set: LOINC Imaging Document Codes 1.3.6.1.4.1.12009.10.2.5
Code System(s): LOINC 2.16.840.1.113883.6.1

Table N.2.1-1. LOINC Imaging Document Codes (examples)

| Code | Code System | Print Name |
|---------|-------------|-----------------------------------|
| 11525-3 | LOINC | US Pelvis and Fetus for pregnancy |
| 17787-3 | LOINC | Thyroid Scan Study report |
| 18744-3 | LOINC | Bronchoscopy study |
| 18746-8 | LOINC | Colonoscopy study |
| 18748-4 | LOINC | Diagnostic imaging study |
| ... | | |

N.2.2 LOINC Y/N/NA

Value Set: LOINC Y/N/NA 1.3.6.1.4.1.12009.10.1.163
Code System(s): LOINC 2.16.840.1.113883.6.1

Table N.2.2-1. LOINC Y/N/NA

| Code | Code System | Print Name |
|----------|-------------|----------------|
| LA33-6 | LOINC | Yes |
| LA32-8 | LOINC | No |
| LA4720-4 | LOINC | Not Applicable |