PS3.16

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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 3].

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

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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.

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2.1 General

[ISO/IEC Directives, Part 3] ISO/IEC. 1989. *Drafting and presentation of International Standards*.

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

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Revision History
Revision 3.0 October 5, 2005
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[~~ISO/IEEE 11073-10101~~] ~~ISO/IEEE. . *Health informatics - Point-of-care medical device communication - Nomenclature*.~~

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

[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 .

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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.

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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 .

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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.

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2.10 Cancer Staging

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2.11 Quantitative Arteriography and Ventriculography

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2.15 LOINC

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

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2.16 UCUM

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

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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.

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This DICOM Standard incorporates various veterinary terms from the SNOMED CT VetSCT extension, used by permission of the Veterinary Terminology Services Laboratory (VTSL) (http://vtsl.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*.

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.
Defined Context Group Identifier (DCID)	Identifier that specifies the Context Group for a Code Sequence Attribute that shall be used.
Extensible Context Group	Context Group that may be extended by a particular application by inclusion of additional concepts.
Non-Extensible Context Group	Context Group whose defined set of concepts shall not be extended by an application.
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.
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, ~~SNM3~~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>=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>=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 in 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	*Coding Scheme Version*	Code Value	Code Meaning	*<Reference Terminology> Equivalent Value*
...	...	...	...	...
...	...	...	...	...

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
…	…	…
Include CID nnn		
…	…	…

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, 3rd 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 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)
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)
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

Coding Scheme Designator	Coding Scheme UID	Description
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)
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
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. Genome Biology 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

Coding Scheme Designator	Coding Scheme UID	Description
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" *PACE*, 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." *Pacing Clin Electrophysiol.*, 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
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. ~~RFC3066~~RFC 3066 has been superseded by ~~RFC4646~~RFC 4646.
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.

Coding Scheme Designator	Coding Scheme UID	Description
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	
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.

~~Note~~

~~SNOMED is a registered trademark of the International Health Terminology Standards Development Organisation.~~

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 *entire*right 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 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	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).
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	SCOORD	$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")
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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 [*Namespace ID*]^[*Universal ID*^ *Universal ID Type*], where *Namespace ID*identifies an entity within the local namespace or domain, *Universal ID*is a universal or unique identifier for an entity, and *Universal ID Type*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

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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”
7			CODE	EV (121034, DCM, "Subject Species")	1	MC	Required if not inherited.	DCID 7454 “~~Species~~Animal Taxonomic Rank Values” Defaults to (L-~~85B00~~85003, SRT, "homo sapiens").
8			CODE	EV (121035, DCM, "Subject Breed")	1	U		Defaults to value of Patient Breed Code Sequence (0010,2293) in General 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., [*Namespace ID*]^[*Universal ID^Universal ID Type*]

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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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

1. For example, the French language could be specified unmodified, or French as written in France or Canada could be distinguished.
2. 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”
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

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		

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

1. 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"

2. 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")

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

1. 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"

2. 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	

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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	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: • 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

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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	Referenced Frame Number (0008,1160) is an attribute of the IMAGE Content Item. 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. Frame number shall be specified even if the Segmentation SOP Instance has only a single frame.
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"	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. Otherwise the type shall be a closed POLYLINE (start and end point the same) or a CIRCLE or an ELLIPSE.
Rows 5, 6	Referenced Segment Number (0062,000B) is an attribute of the IMAGE Content Item. 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. Segment number shall be specified even if the Segmentation SOP Instance has only a single segment.
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	Path shall represent the measured path in a reference coordinate space. The Graphic Type (0070,0023) of the Path SCOORD3D shall be: • 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: **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		
3b	>	CONTAINS	CODE	EV (121071, DCM, "Finding")	1	U		$FindingType
4	>	~~CONTAINS~~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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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 definitions 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: **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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
3	>	HAS OBS CONTEXT	UIDREF	EV (112040, DCM, "Tracking Unique Identifier")	1	M		
3b	>	CONTAINS	CODE	EV (121071, DCM, "Finding")	1	U		$FindingType
4	>	~~CONTAINS~~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
~~8~~	~~>~~	~~CONTAINS~~	~~IMAGE~~	~~EV (121233, DCM, "Source image for segmentation")~~	~~1-n~~	~~MC~~	~~XOR Row 9 and IFF Row 7~~	
~~9~~	~~>~~	~~CONTAINS~~	~~UIDREF~~	~~EV (121232, DCM, "Source series for image segmentation")~~	~~1~~	~~MC~~	~~XOR Row 8 and IFF Row 7~~	
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 10~~(Row 7 or Row 10)	
12	>	CONTAINS	UIDREF	EV (121232, DCM, "Source series for segmentation")	1	MC	XOR Row 11 and IFF ~~Row 10~~((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 definitions 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 Segment Number (0062,000B) is an attribute of the IMAGE Content Item, and shall be present with a single value. 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. 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. Segment number shall be specified even if the Segmentation SOP Instance has only a single segment.
~~Rows 8,~~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.
~~Rows 9,~~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 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: **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	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	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

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
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

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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	

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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”
~~9~~ 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 all except one of the "heading" containers is present, though each may be 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 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~~ 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	>	~~CONTAINS~~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	U		$TargetSite
7	>>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT, "Laterality")	1	U		DCID 244 “Laterality”
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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 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~~(126070, DCM, "Subject Time Point Identifier")~~; DCM, "Subject Time Point Identifier")~~	1	U		
2		HAS OBS CONTEXT	TEXT	EV ~~(126071~~(126071, DCM, "Protocol Time Point Identifier")~~; 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")~~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 ~~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 UIDs, 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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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 =~~ UNITS = EV (mm, UCUM, "millimeter") ~~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		
8		HAS ACQ CONTEXT	NUM	EV (112012, DCM, "Positioner Secondary Angle")	1	U		

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 row (first) 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 column (second) 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 =~~ UNITS = EV (mm, UCUM, "millimeter") ~~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")
4		HAS ACQ CONTEXT	NUM	EV (112225, DCM, "Slice Thickness")	1	U		UNITS = EV (mm, UCUM, "millimeter")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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 row (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.
Vertical Imager Pixel Spacing	The column (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.

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 (110909, 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 = (s, UCUM, "s")
4		HAS ACQ CONTEXT	DATETIME	EV (123003, DCM, "Radiopharmaceutical Start Date Time")	1	U		
~~4~~5		HAS ACQ CONTEXT	DATETIME	EV (123004, DCM, "Radiopharmaceutical Stop Time")	1	U		
~~5~~6		HAS ACQ CONTEXT	NUM	EV (123005, DCM, "Radiopharmaceutical Volume")	1	U		UNITS = DT (cm3, UCUM, "cm3")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
~~6~~7		HAS ACQ CONTEXT	NUM	EV (123006, DCM, "Radionuclide Total Dose")	1	U		UNITS = DT (Bq, UCUM, "Bq")
~~7~~8		HAS ACQ CONTEXT	NUM	EV (123007, DCM, "Radiopharmaceutical Specific Activity")	1	U		UNITS = DT (Bq/mol, UCUM, "Bq/mol")
~~8~~9		HAS ACQ CONTEXT	CODE	EV (G-C340, SRT, "Route of Administration")	1	U		BCID 11 “Route of Administration”
~~9~~10		HAS ACQ CONTEXT	NUM	EV (123009, DCM, "Radionuclide Syringe Counts")	1	U		UNITS = DT ({counts}/s, UCUM "counts/s")
~~10~~11		HAS ACQ CONTEXT	NUM	EV (123010, DCM, "Radionuclide Residual Syringe Counts")	1	U		UNITS = DT ({counts}/s, UCUM "counts/s")
~~10~~12		HAS ACQ CONTEXT	NUM	EV (126203, DCM, "PET Radionuclide Incubation Time")	1	U		UNITS = EV (min, UCUM, "min")
~~12~~13		HAS ACQ CONTEXT	NUM	EV (14749-6, LN, "Glucose")	1	U		UNITS = EV (mmol/l, UCUM, "mmol/l")
~~13~~14		HAS ACQ CONTEXT	DATE	EV (109081, DCM, "Glucose Measurement Date")	1	M		
~~14~~15		HAS ACQ CONTEXT	TIME	EV (109082, DCM, "Glucose Measurement Time")	1	M		

Content Item Descriptions

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.

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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		
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	
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”
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		
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		
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		
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		
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		
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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”
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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”
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”
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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-043E7, 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")
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:

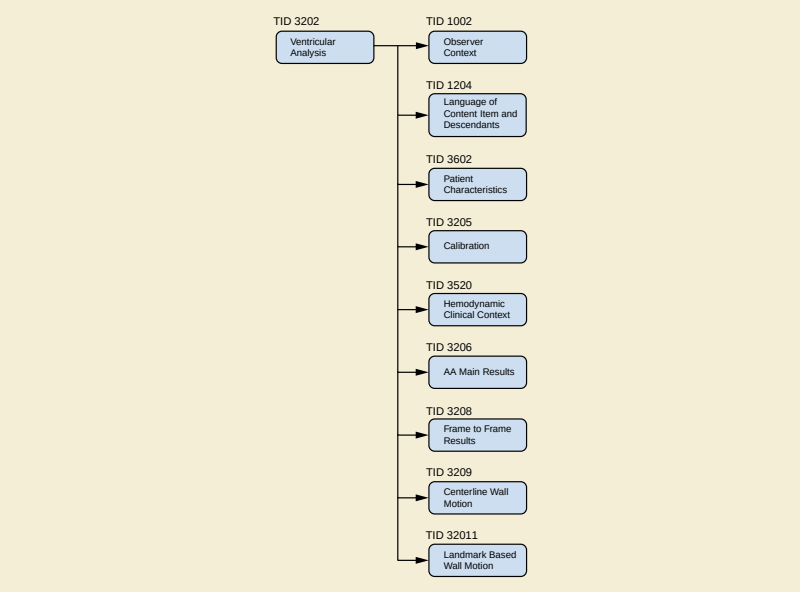

Figure A-3. Quantitative Ventricular Analysis Report SR IOD Template Structure

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		
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	

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		

	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		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")
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")
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")
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")
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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”
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:

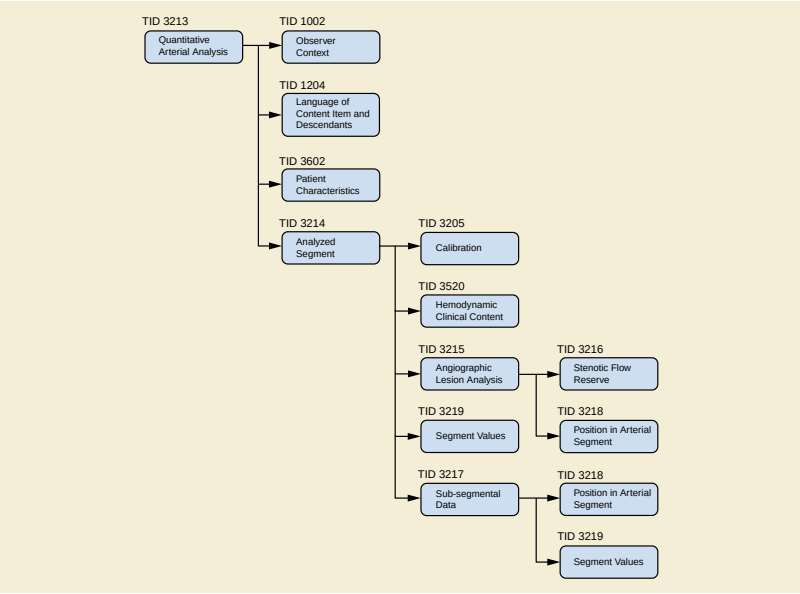

Figure A-4. Quantitative Arterial Analysis Report SR IOD Template Structure

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
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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:

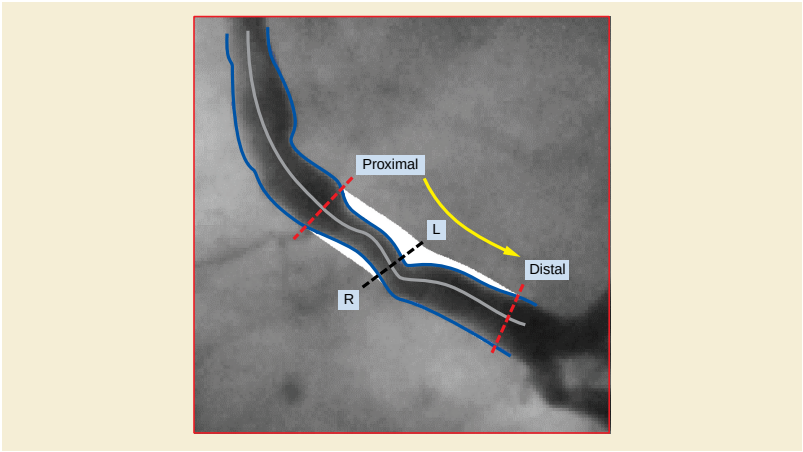

Figure A-4b. Direction of Blood Flow

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-00585, 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”
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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: (Reference Luminal Diameter - Minimum Luminal Diameter / Reference Luminal Diameter) * 100%
Row 23	The circular and the densitometric area stenosis are calculated respectively as: (Reference Vessel Lumen Cross-Sectional Area - Minimum Luminal Circular Area / Reference Vessel Lumen Cross-Sectional Area) * 100%(Reference Vessel Lumen Cross-Sectional Area - Minimum Luminal Densitometric Area / 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].s2/cm2, UCUM, "mmHG.s2/cm2")

	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.

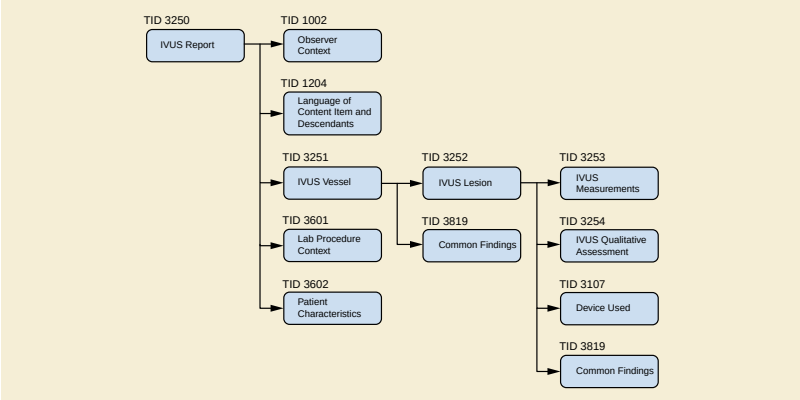

Figure A-5. IVUS Report Template Hierarchy

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-00585, 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	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™. Note Also see TID 3105 “Lesion Identification and Properties”.
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-B3008, 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 Time")	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 Time")	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	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). 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.

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 cavitary 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 cavitary 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.

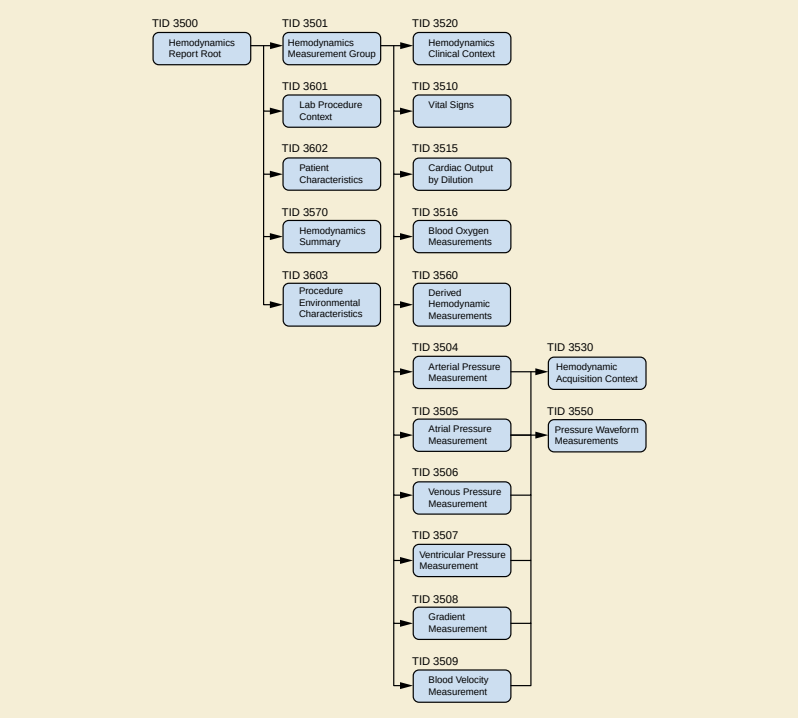

Figure A-6. Hemodynamic Report Template Hierarchy

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-043E7, 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-co-ordinated 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 (P2-2200A, SRT, "Ventilatory assistance") $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 (P0-0000, 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-043E7, 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 = BCID 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 = BCID 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.

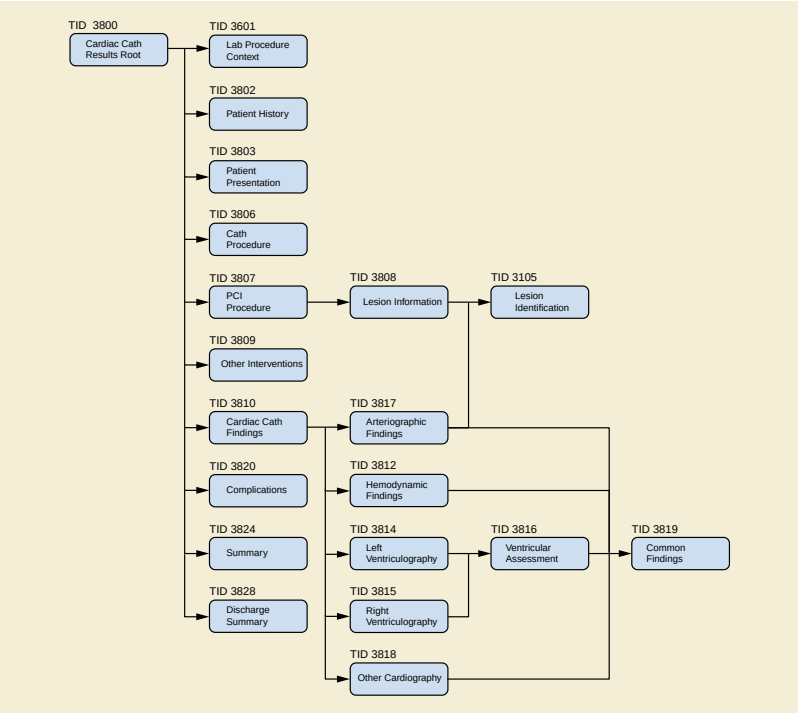

Figure A-7. Cardiac Catheterization Report Template Hierarchy

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 Date/Time")	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/IIIa 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 (D4-31159, 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, "Date 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 ([hnsf'U], 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/[hnsf'U].cm3, UCUM, "mg/[hnsf'U].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-00585, 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-34200, 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	SCOORD	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 Time")	1	M		
5	>	HAS OBS CONTEXT	DATETIME	EV (G-D320, SRT, "Stop Time")	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-32206, SRT, "Compound 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-A22A, 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-34200, 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-A22A, 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 (F-32011, 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 (F-32011, 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:

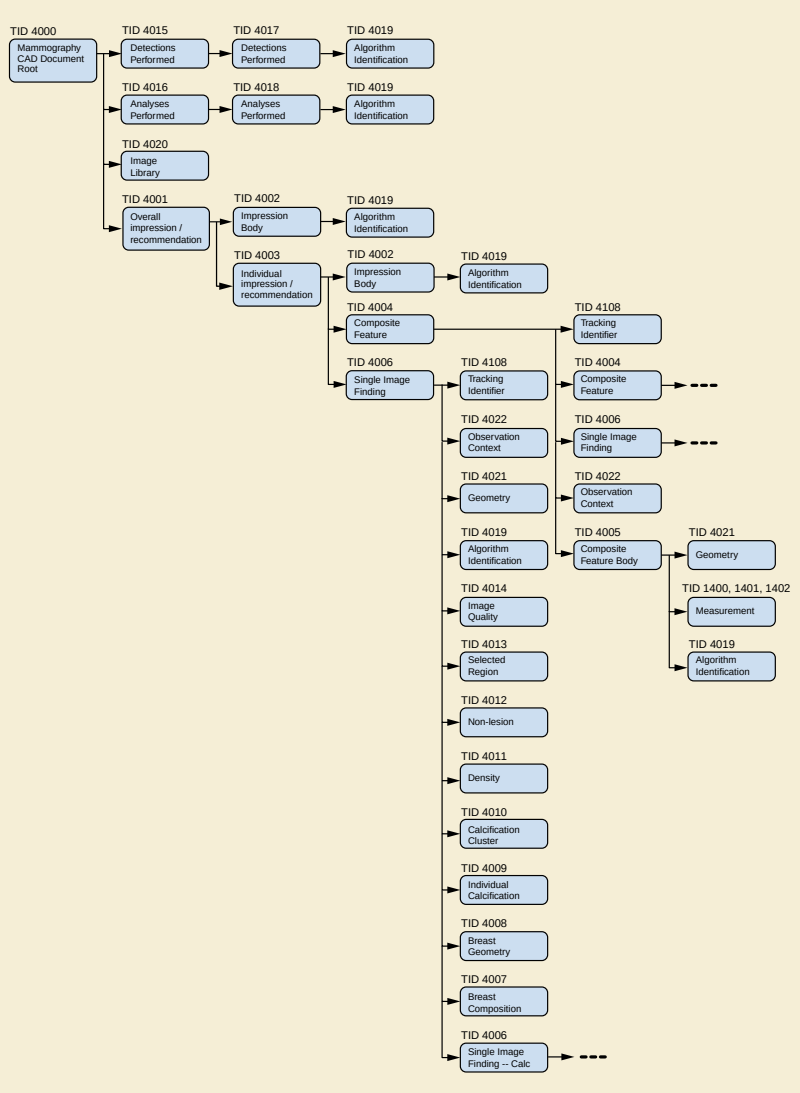

Figure A-8. Mammography CAD SR IOD Template Structure

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	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. 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.
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~~TID 1400 “Linear Measurement” ~~(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~~TID 1401 “Area Measurement” ~~(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~~TID 1402 “Volume Measurement” ~~(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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
14	>	HAS PROPERTIES	TEXT	EV (111021, DCM, "Description of Change")	1	U		
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
26	>	HAS CONCEPT MOD	CODE	EV (121401, DCM, "Derivation")	1	M		DCID 6140 “Calculation Methods”
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~~TID 1400 “Linear Measurement” ~~(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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
5	>	HAS PROPERTIES	INCLUDE	DTID 4019 “CAD Algorithm Identification”	1	M		
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")	

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")	
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~~TID 1400 “Linear Measurement” ~~(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~~TID 1401 “Area Measurement” ~~(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~~TID 1402 “Volume Measurement” ~~(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~~TID 1400 “Linear Measurement” ~~(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~~TID 1401 “Area Measurement” ~~(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~~TID 1402 “Volume Measurement” ~~(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~~TID 1400 “Linear Measurement” ~~(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~~TID 1401 “Area Measurement” ~~(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~~TID 1402 “Volume Measurement” ~~(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~~TID 1400 “Linear Measurement” ~~(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~~TID 1401 “Area Measurement” ~~(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~~TID 1402 “Volume Measurement” ~~(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~~TID 1400 “Linear Measurement” ~~(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~~TID 1401 “Area Measurement” ~~(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~~TID 1402 “Volume Measurement” ~~(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

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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	

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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	SCOORD	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 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	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. 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. 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.
Rows 5, 6	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. 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. 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.

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
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	SCOORD	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	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. 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. 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.

Rows 5, 6	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. 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. 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.

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

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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	
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	
14	>	HAS ACQ CONTEXT	NUM	EV (112012, DCM, "Positioner Secondary Angle")	1	UC	May be present if (0018,1511) is in the Image Instance	
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.	

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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 row (first) 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 column (second) 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			SCOORD	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			SCOORD	EV (111041, DCM, "Outline")	1	U		
4	>	R-SELECTED FROM	IMAGE		1	M		Shall reference the same Content Item as row 2
5			SCOORD	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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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.

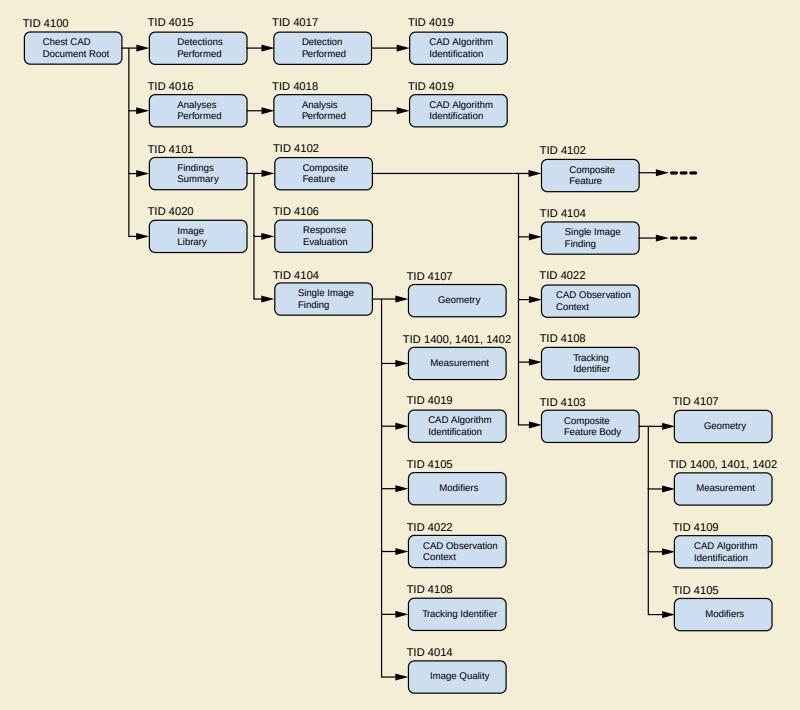

Figure A-9. Chest CAD SR IOD Template Structure

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	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. 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.
Detections Performed	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.
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	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. 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.

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”
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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”
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~~TID 1400 “Linear Measurement” ~~(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”
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")	

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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 ([hnsf'U], 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 ([hnsf'U], 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.

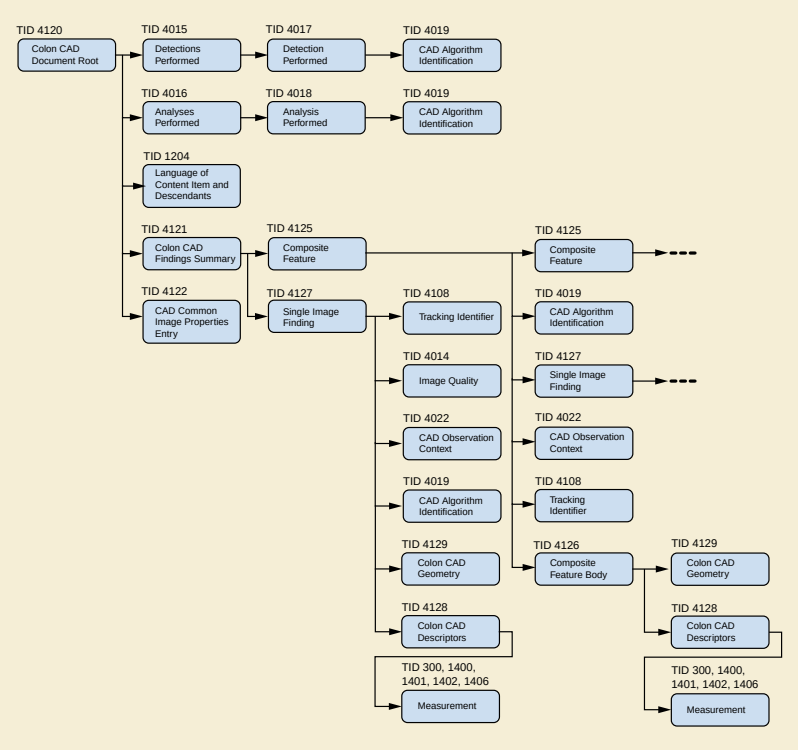

Figure A-9b. Colon CAD SR IOD Template Structure

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

	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 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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
4	>	INFERRED FROM	INCLUDE	DTID 4127 “Colon CAD Single Image Finding”	1-n	U		

Content Item Descriptions

CAD Processing and Findings Summary	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. 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.

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		
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 1 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 2 of Pixel Spacing (0028,0030) in the Image Instances. UNITS = EV (mm/{pixel}, UCUM, "millimeters per pixel")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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	
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	

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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 ([hnsf'U], 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 ([hnsf'U], 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.

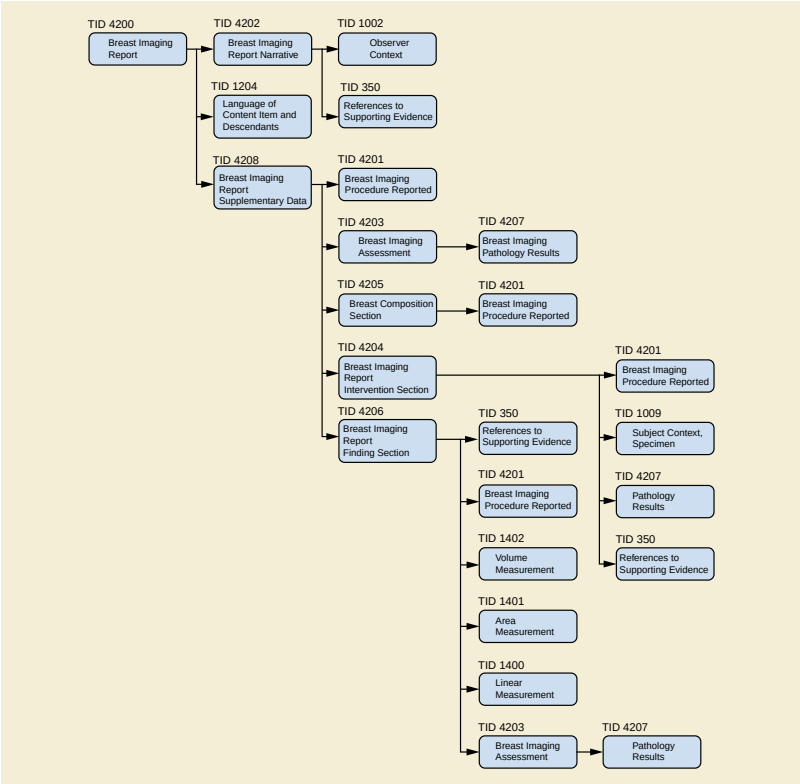

Figure A-10. Breast Imaging Report Template Structure

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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
4	>	CONTAINS	INCLUDE	DTID 4208 “Breast Imaging Report Supplementary Data” 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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
18	>	CONTAINS	CONTAINER	EV (121027, DCM, "Specimen")	1-n	U		
19	>>	HAS OBS CONTEXT	INCLUDE	DTID 1009 “Subject Context, Specimen”	1	U		
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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”
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		
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
18	>>	HAS PROPERTIES	CODE	EV (111475, DCM, "Estrogen receptor")	1	U		DCID 250 “Positive-Negative”
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 Obsetet 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”

Implantation Plan SR Document Templates

The Templates that comprise the Implantation Plan SR Document IOD are interconnected as in Figure A-11.

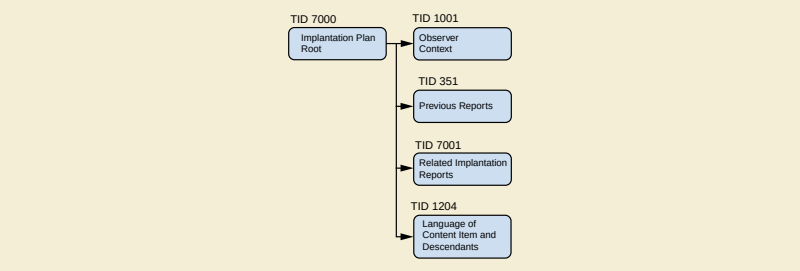

Figure A-11. Implantation Plan SR Document IOD Template Structure

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.

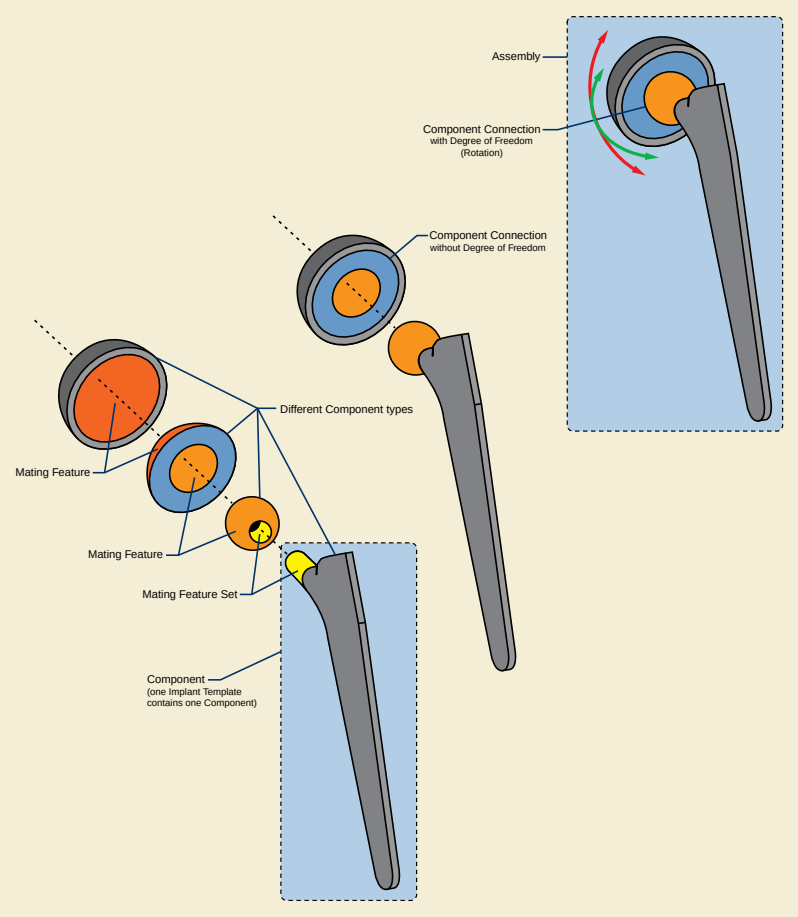

Figure A-12. Implant Assembly and Components Terminology

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 (111026, 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	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). This may help to find the right registration information (row 43).

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.

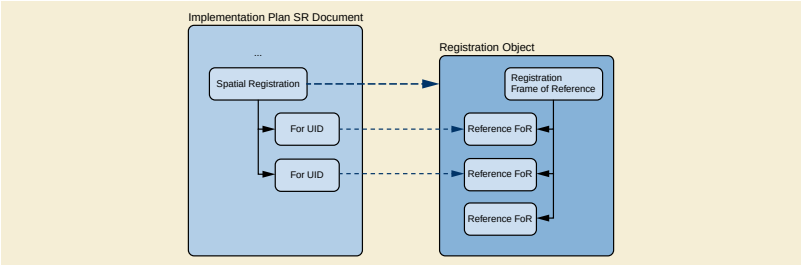

Figure A-13. References to Registration Objects

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 7454 "Animal Taxonomic Rank Values"

Content Item Descriptions

Row 3	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. 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. Species and strain identification is not described in TID 1001; rather it is encoded in DICOM Attributes in the top level data set.
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 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

1. 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.
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 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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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 homogenous.

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	

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
8	>>	CONTAINS	CODE	EV (111516, DCM, "Medication Type")	1	M		DCID 621 “Medication Type Code Type for Small Animal Anesthesia”
9	>>	CONTAINS	NUM	EV (G-C0B7, SRT, "Dosage")	1	U		UNITS = DCID 82 "Units of Measurement"
10	>>	CONTAINS	NUM	EV (122093, DCM, "Concentration")	1	U		UNITS = DCID 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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
3	>	CONTAINS	CODE	EV (C0018851, UMLS, "Heating")	1	U		DCID 635 “Heating Method”
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		
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		UNITS = DCID 7456 "Units of Measure for Age"
6	>>	HAS PROPERTIES	NUM	EV (111525, DCM, "Age Ended")	1	U		UNITS = 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”
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	SCOORD3D	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

Content Item Descriptions

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	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.

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		
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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”
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.

Parameter Name	Parameter Usage
$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		~~UNITS~~DCID 7456 “Units of Measure for Age” ~~= EV (a, UCUM, "Year")~~
6	>>	HAS PROPERTIES	NUM	EV (111525, DCM, "Age Ended")	1	U		~~UNITS~~DCID 7456 “Units of Measure for Age” ~~= EV (a, UCUM, "Year")~~
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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"~~	~~No context group is provided for the value set, but it is recommended that values from a standard external coding scheme, such as SRT or NDC, be used~~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

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		
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

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		
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.

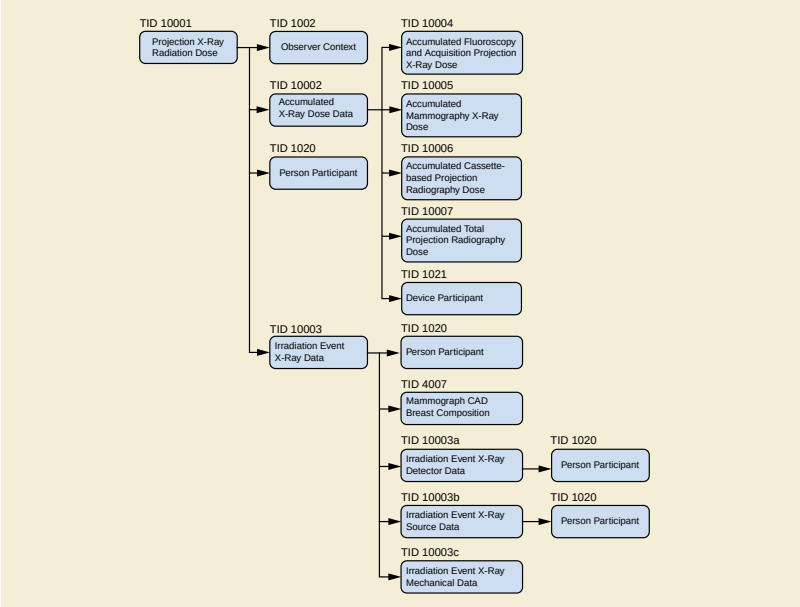

Figure A-14. X-Ray Radiation Dose SR IOD Template Structure

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
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")
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	"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. The coded term for "Mammography" is intended to encompass all types of projection X-Ray imaging of the breast. Note 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.
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	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. A value of "Yes" or the absence of this row means that the details are available.
Row 9	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. A value of "Yes" or the absence of this row means that the details are available.
Row 10	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. A value of "Yes" or the absence of this row means that the details are available.
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 Date")	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")	
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)	

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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”
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")	
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 ~~25~~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")
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")
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")
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")
4			NUM	EV (113727, DCM, "Acquisition Dose Area Product Total")	1	M		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"). May be present otherwise.	UNITS = EV (Gy, UCUM, "Gy")
6			NUM	EV (113855, DCM, "Total Acquisition Time")	1	M		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”
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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.

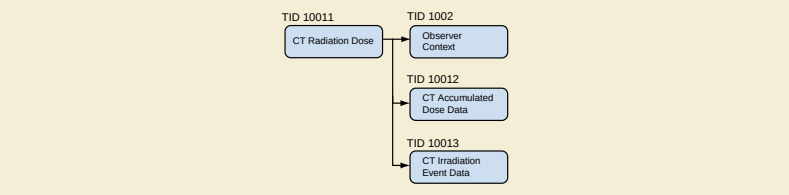

Figure A-15. CT Radiation Dose SR IOD Template Structure

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
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		
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, Date Time of the first CT Irradiation Event of the accumulation
Row 6	End, Date Time 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”
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, "CTDIfreeair 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, "CTDIfreeair 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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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	Total Number of CT irradiation events. A CT irradiation event is one continuous irradiation procedure and is defined through consistent acquisition parameters. 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.
Rows 5, 6	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.
Rows 5, 6	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”. Effective dose is defined by the reference in Rows 5 or 6 of this Template. 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 CTDIfreeair and the ratio E/CTDIfreeair. The ratios E/DLP or E/CTDIfreeair 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.
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		
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”
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")
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")
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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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 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	"Mean $CTDI_{vol}$" refers to the average value of the $CTDI_{vol}$ applied within this acquisition. $CTDI_{vol}$ is the volume $CTDI_w$, where $CTDI_w$ is the weighted computed tomography dose index 100 as defined in IEC 60601-2-44. For Sequenced and Spiral scanning, $CTDI_{vol} = CTDI_w$ / Pitch Factor. For Stationary and Free scanning, $CTDI_{vol} = CTDI_w \times$ Cumulative Exposure Time/ Exposure Time Per Rotation. According to IEC 60601-2-44 Ed 3 for Constant Angle Acquisition may be calculated as CTDIvol = (CTDIw / Current Time Product (mAs)) × X-Ray Tube Current (mA) x (Nominal Total Collimation Width (mm) / Table Speed (mm/s)). Note The ratio CTDIw / 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. See also CTDIvol (0018,9345) and Spiral Pitch Factor (0018,9311) in the “Enhanced Computed Tomography Image IOD” in PS3.3.
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	The methods of AAPM Report 204 are listed in CID 10023 “Size Specific Dose Estimation Method for CT”; other methods may be used. The phantom size (16cm or 32cm) used for the calculation is available from the phantom type defined in Row 23.
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 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")
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 are present.	If present, shall be the same UID as in the images reconstructed from this irradiation event.

Content Item Descriptions

Row 1	For Spiral scanning, the scanning length is normally the table travel in mm during the tube loading (see Figure A-16). For Sequenced scanning, the scanning length is the table travel between consecutive scans times the number of scans. For Stationary and Free scanning, the scanning length is the nominal width of the total collimation.

Row 2	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. 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). 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). For Stationary and Free scanning, the length of reconstructable volume is the nominal width of the total collimation.
Row 3	For Spiral scanning, the exposed range is as defined in IEC 60601-2-44 (Ed. 3) 302.115(b) (see Figure A-16). Exposed range is not defined for other modes of scanning.
Rows 4-5	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.
Rows 4-7	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).

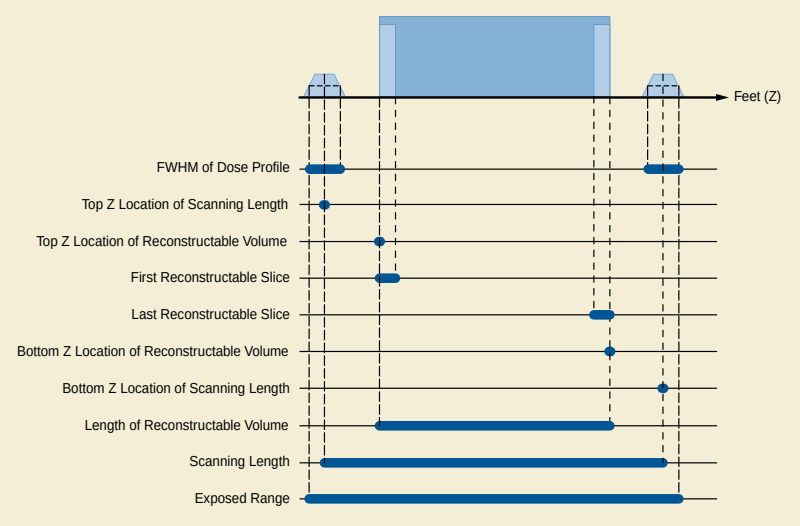

Figure A-16. Spiral Acquisition Parameters

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	

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")
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 CTDIvol Forward Estimate (Row 7) exceeds CTDIvol 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 CTDIvol Forward Estimate (Row 7) exceeds CTDIvol 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, "CTDIvol 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, "CTDIvol 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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
16	>	CONTAINS	NUM	EV (113914, DCM, "CTDIvol Forward Estimate")	1	MC	IF CTDIvol Forward Estimate (Row 16) exceeds CTDIvol 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 CTDIvol Forward Estimate (Row 16) exceeds CTDIvol 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 CTDIvol Forward Estimate (Row 16) exceeds CTDIvol 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.

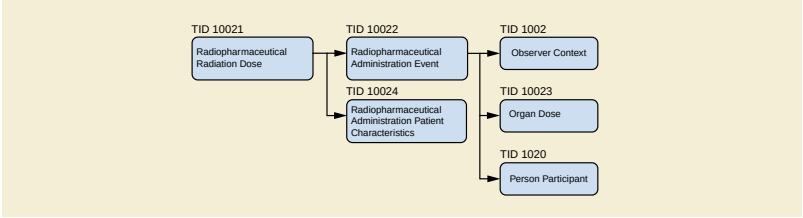

Figure A-17. Radiopharmaceutical Radiation Dose SR IOD Template Structure

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~~ Root node
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		
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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”
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 ~~22~~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 ~~23~~21 has laterality	DCID 244 “Laterality”
23	>	HAS OBS CONTEXT	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		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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”

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
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		
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 ~~Content Item Descriptions~~ Item Descriptions

Row 3	Defaults to value of Patient's Age (0010,1010) in Patient Study Module
Row 5	Patient height may differ from Patient's Size (0010,1020). Row 4 is the height value used for any height based protocols. Observation DateTime (0040,A032) may be used to record when the measurement was taken.
Row 6	Patient weight may differ from Patient's Weight (0010,1030). Row 5 is the weight value used for any weight based protocols. Observation DateTime (0040,A032) shall be used to record when the measurement was taken.
Row 11	Patient's Blood Glucose level. Observation DateTime (0040,A032) shall be used to record when the measurement was taken.
Row 15	Serum Creatinine level. Observation DateTime (0040,A032) shall be used to record when the measurement was taken.
Row 16	Glomerular Filtration Rate Observation DateTime (0040,A032) shall be used to record when the measurement was taken. The formatting of the UCUM units is aligned with LOINC. See http://unitsofmeasure.org/trac/ticket/98

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: **20020904**

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	G-A105	Anterior	36592002	C1704448
SRT	G-A106	Posterior	82583001	C0205095
SRT	G-A107	Cephalic	66787007	C0205096
SRT	G-A108	Caudal	3583002	C0205097
SRT	G-A109	Medial	36263002	C0205098
SRT	G-A110	Central	26216008	C0205099
SRT	G-A111	Peripheral	14414005	C0205100
SRT	G-A112	External	90159008	C0205101
SRT	G-A113	Internal	36463004	C0205102
SRT	G-A114	Intermediate	11896004	C0205103
SRT	G-A115	Inferior	36885000	C0542339
SRT	G-A116	Superior	43014004	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-A168	Surface	76666009	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: **20110124**

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-D8100	Axilla	34797008	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-D1212	Hypoglossal	23129005	C0230034
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
SRT	T-D3136	Parasternal	91691001	C0458345

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20061024**

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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	G-A101	Left	7771000	C0205091
SRT	G-A104	Lateral	49370004	C0205093
SRT	G-A105	Anterior	36592002	C1704448
SRT	G-A106	Posterior	82583001	C0205095
SRT	G-A108	Caudal	3583002	C0205097
SRT	G-A109	Medial	36263002	C0205098
SRT	G-A110	Central	26216008	C0205099
SRT	G-A111	Peripheral	14414005	C0205100
SRT	G-A112	External	90159008	C0205101
SRT	G-A113	Internal	36463004	C0205102
SRT	G-A115	Inferior	36885000	C0542339
SRT	G-A116	Superior	43014004	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-A168	Surface	76666009	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: **20020904**

Table CID 7. Ultrasound Beam Path

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	G-A1A9	Trans-hepatic	103352006	C0589464
SRT	G-A1B2	Trans-gastric	103353001	C0442355
SRT	G-A1A5	Trans-pleural	103348006	C0522494
SRT	G-A1B3	Trans-mural	103354007	C0522497
SRT	G-A1A8	Trans-orbital	103351004	C0589395
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: **20020904**

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-26A06	Fixed object		
SRT	A-26A08	Grid		
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: **20020904**

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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	P1-03100	Biopsy	86273004	C0005558
SRT	P1-03176	Removal of foreign body	10849003	C0184937
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	P5-39050	Percutaneous retrieval of intravascular foreign body	37630009	C0203013
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	P1-86101	Decompression amniocentesis [decompression of amnion]	133873000	C1276412
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: **20020904**

Table CID 10. Interventional Drug

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	C-21005	Ethanol	32055008	C0001962
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	C-80125	Cardiac depressant drug	13251009	C0301380
SRT	C-80130	Cardiac adrenergic blocking agent	51981003	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	C-A6920	Injectable fibrinogen	2362004	C0301496
SRT	C-A7000	Hemostatic agent	26370007	C0019120
SRT	C-A7001	Astringent drug	60533005	C0004110
SRT	C-A7021	Antihemophilic factor preparation	59057006	C0301494
SRT	C-A7040	Thrombin preparation	48421007	C0040018
SRT	C-A7042	Thromboplastin preparation	22634000	C0040048
SRT	C-A7220	Dextran	13132007	C0086140
SRT	C-A7400	Thrombolytic agent	44699004	C0016018
SRT	C-A7420	Streptokinase preparation	20847002	C0038418
SRT	C-A7430	Urokinase preparation	59082006	C0042071

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	C-A7440	Injectable fibrinolysin	87811005	C0301485
SRT	C-C2318	Priscoline hydrocholoride ampuls		C0307380
SRT	F-B2110	Epinephrine	78890004	C0014563

CID 11 Route of Administration

Type: **Extensible**
Version: ~~**20100608**~~**20151110**

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-D105	Intracutaneous route	59593002	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
SRT	G-D111	Intraepithelial route	89947002	C1512943
SRT	G-D112	Topical route	6064005	C1522168
SRT	G-D140	Oral route	26643006	C1527415
SRT	G-D142	Transluminal route	9942002	C0205532
SRT	G-D144	Intraluminal route	37737002	C1522217
SRT	G-D146	Extraluminal route	31638007	C0205534
SRT	G-D150	By inhalation	112239003	C0205535
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: **20110609**

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-B0310	Radiopaque medium	79585001	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	Angiovist™(Berlex), Cardiografin™(Bracco), Cystografin™(Bracco), Gastrografin™(Bracco), Gastrovist™(Berlex), Hypaque™(GE), MD-nn™(Mallinckrodt), Reno-nn™(Bracco), Renografin™(Bracco), Renovist™(Bracco), Sinografin™(Bracco), Urovist™(Berlex)
SRT	C-B0318	Iodipamide	73212002	C0021971	Cholographin™(Bracco), Sinografin™(Bracco)
SRT	C-B0319	Iodized oil	89595000	C0021972	
SRT	C-B0323	Iodoalphionic acid	86584005	C0063766	
SRT	C-B0324	Meglumine iodipamide	69783005	C0065885	Cholographin Meglumine™(Bracco)
SRT	C-B0325	Sodium iodipamide	925002	C0301445	Cholographin Sodium™(Bracco)
SRT	C-B0326	Iodamide meglumine	12801003	C0065884	Renovue™(Bracco)
SRT	C-B0327	Iodopyracet	40710000	C0021990	
SRT	C-B0328	Iopanoic acid	76155001	C0022028	Telepaque™(GE)
SRT	C-B0331	Iophendylate	28121005	C0022029	Pantopaque™(Alcon)
SRT	C-B0333	Iophenoxic acid	23053002	C0063816	
SRT	C-B0335	Ipodate	87445005	C0022049	Bilivist™(Berlex), Oragrafin™(Bracco)
SRT	C-B0337	Propyliodone	111158001	C0033509	Dionosil™(GSK)
SRT	C-B0338	Sodium acetrizoate	32836007	C0546847	Salpix™(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	Angiovist™(Berlex), Cardiografin™(Bracco), Cystografin™(Bracco), Gastrografin™(Bracco), Gastrovist™(Berlex), Hypaque™(GE), MD-nn™(Mallinckrodt), Reno-nn™(Bracco), Renografin™(Bracco), Renovist™(Bracco), Sinografin™(Bracco), Urovist™(Berlex)
SRT	C-B0347	Sodium diatrizoate	24891006	C0012007	Angiovist™(Berlex), Gastrografin™(Bracco), Gastrovist™(Berlex), Hypaque™(GE), MD-nn™(Mallinckrodt), Renografin™(Bracco), Renovist™(Bracco), Urovist™(Berlex)
SRT	C-B0348	Metrizamide	90733003	C0025869	Amipaque™(GE)
SRT	C-B0349	Sodium tyropanate	19970000	C0936260	
SRT	C-B0301	Ionic iodinated contrast agent	96387000	C0361904	
SRT	C-B0302	Non-ionic iodinated contrast agent	96388005	C0521968	
SRT	C-B0322	Iohexol	109218004	C0022005	Omnipaque™(GE)
SRT	C-B03BC	Iodixanol	353962003	C0063757	Visipaque™(GE)
SRT	C-B03C3	Gadodiamide	354088005	C0082646	Omniscan™(GE)
SRT	C-B05A3	Mangafodipir trisodium	410873007	C0067297	Teslascan™(GE)
SRT	C-B038B	Iothalamate	353912008	C0022032	Conray™(Mallinckrodt), Cysto-Conray™(Mallinckrodt), Vascoray™(Mallinckrodt)
SRT	C-B0339	Ioxaglate	109223004	C0205807	Hexbrix™(Mallinckrodt)
SRT	C-B03C9	Metrizoate	354094002	C0025870	Isopaque™(GE)
SRT	C-B03AA	Dimeglumine gadopentetate	353943001	C0060934	Magnevist™(Berlex)
SRT	C-B0329	Iopamidol	109219007	C0022026	Isovue™(Bracco)
SRT	C-B0332	Ioversol	109222009	C0063828	Optiray™(Mallinckrodt)
SRT	C-B03H2	Iopromide			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^Carbon	71647005	C0302945
SRT	C-111A1	^18^Fluorine	77004003	C0302995
SRT	C-155A1	^22^Sodium	71633006	C0303511
SRT	C-155A2	^24^Sodium	58541008	C0303512
SRT	C-106A1	^32^Phosphorus	32505007	C0851287
SRT	C-135A2	^42^Potassium	59844004	C0303277
SRT	C-135A3	^43^Potassium	8202008	C0303278
SRT	C-129A2	^51^Chromium	52745005	C0303212
SRT	C-144A3	^57^Cobalt	27054007	C0303392
SRT	C-144A4	^58^Cobalt	89272005	C0303393
SRT	C-130A3	^59^Iron	68580003	C0303220
SRT	C-144A6	^60^Cobalt	5405008	C0303395
SRT	C-127A2	^64^Copper	3932008	C0303190
SRT	C-127A3	^67^Copper	53700003	C0303191
SRT	C-131A2	^67^Gallium	2008008	C0303225
SRT	C-116A3	^75^Selenium	43239002	C0303048
SRT	C-173A5	^81m^Krypton	61716009	C0303689
SRT	C-173A7	^85^Krypton	34127007	C0303691
SRT	C-158A3	^85^Strontium	111084009	C0303544
SRT	C-158A5	^87m^Strontium	78023008	C0303546

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20020904**

Table CID 19. Patient Orientation

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	F-10440	erect	102537008	C0522015
SRT	F-10450	recumbent	102538003	C0444334
SRT	F-10460	semi-erect	102539006	C0522018

Note

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".

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: ~~**20040322**~~**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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20110224**

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	

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Trade name (Informative)
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	Diiodofluorecein 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 Pentetreotide	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	
SRT	C-B1094	Iodinated I^125^ levothyroxine	80260008	C0304991	
SRT	C-B1093	Iodinated I^125^ oleic acid and triolein	73745003	C0304990	

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Trade name (Informative)
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 BMIPP	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	Selenomethionione 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	

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Trade name (Informative)
SRT	C-B1180	Strontium chloride Sr^85^	69076006	C0305015	
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-B1212	Technetium Tc^99m^ medronate	43178005	C0305029	
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-B1214	Technetium Tc^99m^ pentetate	32098007	C0305031	
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 GSA	446534003	C2960066	Asialoscinti

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Trade name (Informative)
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 Tl^201^	73685002	C0305040	
SRT	C-B1010	Therapeutic radioisotope	439007	C0358509	
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
Include CID 27 “Basic Cardiac Views”				
SRT	G-5215	Anterior projection	399321004	C1275849
SRT	G-5216	Posterior projection	399001007	C1275801

Note

1. 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.

2. 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*
SRT	*G-5205*	*Postero-anterior Oblique*
SRT	*G-5211*	*Frontal-oblique axial*
SRT	*G-5213*	*Submento-vertex axial*
SRT	*G-5214*	*Oblique submento-vertex*
SRT	*G-5226*	*Right to left oblique*
SRT	*G-5227*	*Left to right oblique*

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 8.8.8.47).

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

Coding Scheme Designator	Code Value	Code Meaning
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
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
Include CID 29 "Acquisition Modality"		
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
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
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
Include CID 84 “PET Units”		
UCUM	[hnsf'U]	Hounsfield unit

CID 84 PET Units

Type: **Extensible**
Version: **20141110**

Table CID 84. PET Units

Coding Scheme Designator	Code Value	Code Meaning
Include CID 85 "SUV Units"		
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
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: **20141110**

Table CID 85. SUV Units

Coding Scheme Designator	Code Value	Code Meaning
UCUM	{SUVbw}g/ml	Standardized Uptake Value body weight
UCUM	{SUVlbm}g/ml	Standardized Uptake Value lean body mass
UCUM	{SUVbsa}cm2/ml	Standardized Uptake Value body surface area
UCUM	{SUVibw}g/ml	Standardized Uptake Value ideal body weight

Note

The formulas for the determination of SUVbw, SUVbsa, SUVlbm and SUVibw are defined in Sugawara et al. *Reevaluation 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. The patient size correction factors are summarized here, where weight is in kg and height is in cm:

SUVbw: males & females: weight

SUVlbm: males: 1.10 * weight - 120 * (weight/height) ^2

females: 1.07 * weight - 148 * (weight/height) ^2

SUVbsa: males & females: weight^ 0.425 * height^0.725 * 0.007184

SUVibw: males: 48.0 + 1.06 * (height - 152)

females: 45.5 + 0.91 * (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
Include CID 3271 "Hemodynamic Physiological Challenges"				
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-~~ 44139-~~44~~	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~~head perfusion with IV contrast		
RADLEX	RPID5258	NM ~~HEAD PERFUSION BRAIN~~head perfusion brain SPECT		
RADLEX	RPID5427	NM ~~HEAD PERFUSION BRAIN~~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**

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	110112	Query
DCM	110113	Security Alert
DCM	110114	User Authentication

CID 401 Audit Event Type Code

Type: **Extensible**
Version: **20100826**

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

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**

Table CID 403. Security Alert Type Code

Coding Scheme Designator	Code Value	Code Meaning
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
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”				
Include CID 12226 “Echocardiography Image View”				

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
Include CID 6 “Transducer Orientation”				
Include CID 23 “Cranio-Caudad Angulation”				
Include CID 4011 “DX View Modifier”				

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

1. Only rooms appropriate for animals in the context of in vivo imaging are described (e.g., not necropsy rooms, etc.)
2. (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		
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
NCIt	C64636	ad libitum		C1879743
UMLS	C0425422	Restricted diet		C0425422
DCM	127391	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
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
Include CID 614 “Anesthesia Induction Code Type from Anesthesia Quality Initiative (AQI)”				
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	G-D150	By inhalation	112239003	C0205535
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
Include CID 616 “Anesthesia Maintenance Code Type from Anesthesia Quality Initiative (AQI)”				

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, machine system, closed, rebreathing of 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, machine system, closed, no rebreathing of 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
Include CID 618 “Airway Management Method Code Type from Anesthesia Quality Initiative (AQI)”				
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
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
Include CID 622 “Medication Type Code Type from Anesthesia Quality Initiative (AQI)”				
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
Include CID 624 “Inhalational Anesthesia Agents for Small Animal Anesthesia”				
Include CID 625 “Injectable Anesthesia Agents for Small Animal Anesthesia”				
Include CID 626 “Premedication Agents for Small Animal Anesthesia”				
Include CID 627 “Neuromuscular Blocking Agents for Small Animal Anesthesia”				
Include CID 628 “Ancillary Medications for Small Animal Anesthesia”				
Include CID 629 “Carrier Gases for Small Animal Anesthesia”				
Include CID 630 “Local Anesthetics for Small Animal Anesthesia”				

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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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, UMSL, "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
Include CID 632 “Phase of Surgical Procedure Requiring Anesthesia”				
Include CID 633 “Phase of Imaging Procedure Requiring Anesthesia”				

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	
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
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
Include CID 639 “Tumor Graft Histologic Type”				
Include CID 640 “Fibrils”				
Include CID 641 “Viruses”				
Include CID 642 “Cytokines”				
Include CID 643 “Toxins”				

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
NCIt	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: 20151110

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

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		
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		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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 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

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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: **20130617**

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	D4-31320	Common atrium	69524004	C0018817
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: **20130617**

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 of left 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 of left 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
SRT	T-43105	Left Main Coronary Artery Ostium	76862008	C0226030	11A
SRT	T-43126	Left Posterior Descending Artery	56322004	C0278433	27

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Equivalent BARI Code
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
Include CID 3014 "Coronary Artery Segments"				
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: **20110124**

Table CID 3019. Cardiovascular Anatomic Location Modifiers

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	G-A105	Anterior	36592002	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	G-A115	Inferior	36885000	C0205104
SRT	G-A104	Lateral	49370004	C0205093
SRT	G-A101	Left	7771000	C0205091
SRT	T-3215A	Ostium	128946005	C0444567
SRT	G-A106	Posterior	82583001	C0205095
SRT	G-A118	Proximal	40415009	C0205107
SRT	G-A100	Right	24028007	C0205090
SRT	G-A116	Superior	43014004	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: **20140419**

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-D10F8	Nuclear medicine diagnostic procedure on musculoskeletal system	108292009	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: **20080927**

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-0039E	Patient has pacemaker	371821000	C1299449

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: **20080927**

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-52760	Nausea	73879007	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

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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

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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

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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

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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		
SRT	G-A205	Weakly positive	260408008	C0442730

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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, NOS

CID 3241 Hemodynamic Measurement Techniques

Type: **Extensible**
Version: **20020904**

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	PA-50032	Pulmonary capillary wedge method	128574009	C1266837
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: **20030327**

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	G-929D	Cardiac catheterization test/challenging phase		
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	
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
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

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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
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

Coding Scheme Designator	Code Value	Code Meaning	ISO/IEEE 11073 MDC Equivalent Reference ID (Informative)
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
SRT	P2-71302	Head up	128963009	C1293898
SRT	P2-71314	Held inspiration	128969008	C1293904
SRT	P2-71316	Held ventilation	128970009	C1293905

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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.
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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
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

Coding Scheme Designator	Code Value	Code Meaning	ISO/IEEE 11073 MDC Equivalent Reference ID (Informative)
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
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

Coding Scheme Designator	Code Value	Code Meaning	ISO/IEEE 11073 MDC Equivalent Reference ID (Informative)
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
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

Coding Scheme Designator	Code Value	Code Meaning	ISO/IEEE 11073 MDC Equivalent Reference ID (Informative)
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: **20050322**

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	F-32011	End diastole	255254001	C0442709
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		
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
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
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
Include CID 3746 "Percutaneous Entry Site"		
Include CID 3747 "Percutaneous Closure"		

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
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™
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		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	NCDR Equivalent	Trade Name (Informative)
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
Include CID 3754 “Vascular Complications”		
Include CID 3755 “Cath Complications”		

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

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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
MDC	10:9408	Paroxsysmal 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

Coding Scheme Designator	Code Value	Code Meaning	ISO/IEEE 11073 MDC Equivalent Reference ID (Informative)
MDC	10:9520	Supraventricular Paroxsysmal 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
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

Coding Scheme Designator	Code Value	Code Meaning	ISO/IEEE 11073 MDC Equivalent Reference ID (Informative)
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: **20070124**

Table CID 3423. Numeric Device Characteristics

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	G-A22A	Length	131193001	C1444754
SRT	M-02550	Diameter	81827009	C1301886

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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	Bioptome		
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

Coding Scheme Designator	Code Value	Code Meaning
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
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

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
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
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: **20110609**

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	49755003	C0332447
SRT	R-002EF	Culprit Lesion	371895000	C1299364

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
Include CID 3495 "IVUS Plaque Composition"				
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
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
Include CID 3015 “Coronary Arteries”		
Include CID 3606 “Arterial Source Locations”		

CID 3606 Arterial Source Locations

Type: **Extensible**
Version: **20061024**

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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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	D4-32508	Fistula coronary to right atrium	88596007	C0265901
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
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	R-F5517	Pulmonary arteriovenous fistula	204446000	C0155675
SRT	T-44000	Pulmonary artery	81040000	C0034052
SRT	D4-33142	Pulmonary artery conduit	128584005	C1290491
SRT	R-00360	Pulmonary vein wedge	371829003	C1299456

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20130617**

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
SRT	T-49215	Antecubital Vein	128553008	C1276271
SRT	T-49110	Axillary vein	68705008	C0004456
SRT	T-48340	Azygos vein	72107004	C0004526
SRT	T-48052	Basilic vein	360725008	C1283520
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20030327**

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	D4-31320	Common atrium	69524004	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**

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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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 Flows

Type: **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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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 Flows

Type: **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 Measurements

Type: **Extensible**
Version: **20030327**

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-03E7E	Systemic Vascular Resistance	276899006	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
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

1. For example, a surgical biopsy procedure may have "Diagnostic Intent", while the imaging procedure step within that procedure may have "Guidance Intent".

2. 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.

3. 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: **20120326**

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
SRT	R-41562	Neo-adjuvant intent	373847000	C1298676
SRT	R-41563	Supportive intent	399707004	C1302630
SRT	P0-02179	Preventive intent	129428001	C1456501
SRT	P0-02180	Prophylactic intent	129429009	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: **20040920**

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
SRT	F-39790	Vascular Resistance	88619007	C0042380
SRT	F-31120	Diastolic Pressure	67726005	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: **20030327**

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	G-929D	Cardiac catheterization test/challenging phase		
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
DCM	122242	BSA = 0.0235*WT^0.51456*HTcm^ 0.42246
DCM	122243	BSA = 0.024265*WT^0.5378*HTcm^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	VO2male = BSA (138.1 - 11.49 * loge(age) + 0.378*HRf)
DCM	122248	VO2female = BSA (138.1 - 17.04 * loge(age) + 0.378*HRf)
DCM	122249	VO2 = VeSTPD * 10 * (FIO2 - FE02)
DCM	122250	VO2 = 152 * BSA

Coding Scheme Designator	Code Value	Code Meaning
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 Average10 Year CHD Risk
DCM	122232	Comparative Low10 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

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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
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.
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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
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.

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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
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

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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
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

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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

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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
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	O = None	E = Electrogram	O = None
	A = Atrium	A = Atrium	H = Hemodynamic	A = Atrium
	V = Ventricle	V = Ventricle		V = Ventricle
	D = Dual (A+V)	D = Dual (A+V)		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: **20030327**

Table CID 3700. Cath Diagnosis

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	D3-13000	Coronary artery disease	8957000	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
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	D3-28012	Subacute bacterial endocarditis	194937004	C0264874
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	D3-29013	Mitral valve prolapse	45023003	C0026267
SRT	D3-31700	Ventricular tachycardia	25569003	C0042514
SRT	D3-31720	Ventricular fibrillation	71908006	C0042510
SRT	D3-21000	Congestive cardiomyopathy		
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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	D4-31159	Ventricular septal defect	123715003	C1290481
SRT	D3-83300	Aortic aneurysm	67362008	C0003486
SRT	R-10042	Arhythmia Evaluation	386125002	C1272581
SRT	D3-31520	Atrial fibrillation	49436004	C0004238
SRT	D4-31000	heart disease, congenital	13213009	C0152021
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: **20030327**

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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	R-0030B	Calcified Heart Valve	373136005	C1142152
SRT	R-0030F	Immobile Heart Valve	373137001	C1298822
SRT	R-00305	Heart Valve Flail	385395008	C1533816
SRT	D3-28005	Valvular endocarditis	89736004	C0264865

CID 3712 Vessel Descriptors

Type: **Extensible**
Version: **20030327**

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-002CE	Aneurysmal	373139003	C0010051
SRT	R-002FC	Diffuse Disease	371915000	C1299384
SRT	R-00314	Luminal Irregularities	371873004	C1299347
SRT	R-411C5	Muscle Bridge	256922009	C0440751
SRT	R-10050	Stenotic	386139002	C1272588
SRT	R-10051	Ectatic	386140000	C1272589
SRT	G-A264	Calcified	90975005	C0175895
SRT	M-35100	Thrombus	70281000	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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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-IIII
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	NCDR [2.0b] Equivalent	SNOMED-CT Concept ID
SRT	F-9321F	No History of Smoking	38-0	266919005
SRT	S-32000	Current Smoker	38-1	77176002
SRT	S-32070	Former Smoker	38-2	8517006

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: **20030327**

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	R-00374	Single vessel coronary artery disease.	373144005	C0581374

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	R-002FE	Double vessel coronary artery disease.	373145006	C0581375
SRT	R-00386	Triple vessel coronary artery disease.	373146007	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
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	D3-29013	Mitral valve prolapse	45023003	C0026267
SRT	D3-2100	Congestive cardiomyopathy		
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	D4-31159	Ventricular septal defect	123715003	C1290481
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	NCDR [2.0b] Equivalent
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	

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	NCDR Equivalent
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: **20030327**

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-B3081	Adult echocardiography		

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: **20050110**

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	D3-30800	Cardiac arrest	30298009	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	

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	NCDR 2.0b Equivalent Code Value
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: **20111028**

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	P5-09100	Magnetic resonance angiography	105370006	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 angiocardiography	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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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: **20051103**

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	cirsoid aneurysm	233982006	C0334533
SRT	M-32320	mycotic aneurysm	51668007	C0085808
SRT	M-32206	compound aneurysm	246172002	C0333093
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: **20051103**

Table CID 3809. Associated Conditions

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	D6-90600	Marfan's Syndrome		
SRT	M-10000	Traumatic Abnormality	19130008	C0221206

CID 3810 Vascular Morphology

Type: **Extensible**
Version: **20051103**

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-34200	stenosis	18233005	C0333181
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	D-80515	thrombosis		
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: **20051103**

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-34200	stenosis	18233005	C0333181
DCM	122680	endoleak		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	DD-661D2	migration of implant or internal device	370512004	C1299914
DCM	122684	stent disintegration		
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: **20051103**

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	DD-00001	trauma	122549002	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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	M-52120	atherosclerotic fibrous plaque	20717008	C0333483
SRT	M-52101	calcified atheromatous plaque	29483008	C0333479
SRT	M-52102	complicated atheromatous plaque	74937006	C0333480
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	phlebosclerosis	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
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

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
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	T-3215A	Ostium	128946005	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: **20150318**

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-10214	postero-anterior	399066004	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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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	transforamenal	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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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
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

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-102C9	Rolled Superior	415670009	C1531911	any	...RS
SRT	R-102D5	Implant Displaced	399209000	C1275834	any	...ID
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

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-54310	Maxillary left canine tooth	2	3	108821D	72876007
SRT	T-54320	Maxillary left first premolar tooth	2	4	119834D	61897005
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
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: ~~**20141110**~~**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^Carbon	40565003	C0302944
SRT	C-107A1	^13^Nitrogen	21576001	C0302959
SRT	C-1018C	^14^Oxygen	424875009	C1828369
SRT	C-B1038	^15^Oxygen	129504001	C1268556
SRT	C-111A1	^18^Fluorine	77004003	C0302995
SRT	C-155A1	^22^Sodium	71633006	C0303511
SRT	C-135A4	^38^Potassium	423764008	C1827255
DCM	126605	^43^Scandium		
DCM	126600	^44^Scandium		
SRT	C-166A2	^45^Titanium	75696008	C0303635
DCM	126601	^51^Manganese		
SRT	C-130A1	^52^Iron	69089000	C0303218
SRT	C-149A1	^52^Manganese	37225000	C0303448
DCM	126607	^52m^Manganese		
SRT	C-127A4	^60^Copper	425364008	C1827982
SRT	C-127A1	^61^Copper	71425003	C0303189
SRT	C-127A5	^62^Copper	422934004	C1828311
SRT	C-141A1	^62^Zinc	65054007	C0303361
SRT	C-127A2	^64^Copper	3932008	C0303190
SRT	C-131A1	^66^Gallium	79477007	C0303224
SRT	C-131A3	^68^Gallium	35337001	C0303226
SRT	C-128A2	^68^Germanium	53315004	C0303198
DCM	126602	^70^Arsenic		
SRT	C-115A2	^72^Arsenic	2705002	C0303037
SRT	C-116A2	^73^Selenium	87437000	C0303047
SRT	C-113A1	^75^Bromine	17910003	C0303008
SRT	C-113A2	^76^Bromine	79523006	C1304532
SRT	C-113A3	^77^Bromine	86521004	C0303010
SRT	C-159A2	^82^Rubidium	79197006	C0303554
SRT	C-162A3	^86^Yttrium	10738001	C0303592
SRT	C-168A4	^89^Zirconium	63360001	C0303661
DCM	126603	^90^Niobium		
SRT	C-162A7	^90^Yttrium	14691008	C0303596
SRT	C-163AA	^94m^Technetium	424079002	C1828040
SRT	C-114A5	^124^Iodine	40937006	C0303024
DCM	126606	^152^Terbium		

CID 4021 PET Radiopharmaceutical

Type: **Extensible**
Version: ~~**20141110**~~**20160119**

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~~	~~126703~~	~~Choline C^11^~~			
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Other Names
UMLS	C2713594	Edotreotide Ga^68^		C2713594	DOTATOC, SMT487
SRT	C-B07DD	EDTA Ga^68^	423498000	C1828067	
DCM	126704	Fallypride C^11^			
DCM	126705	Fallypride F^18^			
DCM	126706	FLB 457 C^11^			
~~DCM~~	~~126503~~	~~Flubatine F^18^~~			~~NCFHEB~~
DCM	126501	Florbetaben F^18^			NeuroCeq™
SRT	C-E0269	Florbetapir F^18^	456995000	C3475363	AV-45, Amyvid™
DCM	126503	Flubatine F^18^			NCFHEB
DCM	126712	Flubatine F^18^			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	
~~UMLS~~SRT	~~C1831937~~C-B07E0	~~Fluoroestradiol (FES)~~Fluorethyltyrosin F^18^	424708001	~~C1831937~~C1827913	
~~UMLS~~	~~C1541539~~	~~Fluoroetanidazole F^18^~~		~~C1541539~~	~~EF5~~
SRT	C-~~B07E0~~B07E4	~~Fluorethyltyrosin~~Fluorobenzothiazole F^18^	~~424708001~~423546004	~~C1827913~~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-~~B07E1~~B1034	~~Fluoromisonidazole~~Fluoro-L-dopa F^18^	~~422598008~~129500005	~~C1827349~~C1268553	~~FMISO~~
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	
SRT	C-~~B07E4~~E0267	~~Fluorobenzothiazole~~Flutemetamol F^18^	~~423546004~~456997008	~~C1827131~~C2983948	Vizamyl™
~~SRT~~DCM	~~C-~~ 126748~~B1034~~	~~Fluoro-L-dopa F^18^~~Fresolimumab ^89^Zr	~~129500005~~	~~C1268553~~	GC1008
DCM	~~126707~~126731	~~Fluorotriopride F^18^~~GA201 ^89^Zr			RG1760, RO5083945
~~SRT~~	~~C-E0267~~	~~Flutemetamol F^18^~~	~~456997008~~	~~C2983948~~	~~Vizamyl™~~
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	

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Other Names
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	
~~SRT~~DCM	~~C-~~ 126738~~B07E6~~	~~Monoclonal antibody I^124^~~Mogamulizumab ^89^Zr	~~424874008~~	~~C1827605~~	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			

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Other Names
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
SRT	C-B1036	Thymidine (FLT) F^18^	129502002	C1268554	
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

Coding Scheme Designator	Code Value	Code Meaning	SNODENT Code	SNOMED-CT Concept ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNODENT Code	SNOMED-CT Concept ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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: **20120822**

Table CID 4030. CT, MR and PET Anatomy Imaged

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
Include CID 4031 “Common Anatomic Regions”				
SRT	T-42500	Abdominal aorta	7832008	C0003484
SRT	T-41070	Abdominal aorta and its branches	360524005	C1283352
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-41040	Iliac arterial system	314322004	C1282078
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20130617**

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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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	C1456798
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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-D0146	Spine	280717001	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	C0016555
SRT	T-70010	Upper urinary tract	17571003	C0729865
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
Include CID 4033 "MR Proton Spectroscopy Metabolites"		

CID 4033 MR Proton Spectroscopy Metabolites

Type: **Extensible**
Version: **20070122**

Table CID 4033. MR Proton Spectroscopy Metabolites

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	F-6175A	N-acetylaspartate	259379008	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: **20071101**

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
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	C1456798
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	~~Naso pharynx~~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-D0146	Spine	280717001	C0037949
SRT	T-DD006	Trachea and bronchus	110726009	C1268276
SRT	T-70010	Upper urinary tract	17571003	C0729865
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
Include CID 3010 "Cardiovascular Anatomic Locations"		
Include CID 4031 "Common Anatomic Regions"		

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: **20061023**

Table CID 4051. General Devices

Coding Scheme Designator	Code Value	Code Meaning
Include CID 8 "Angiographic Interventional Devices"		
Include CID 3451 "Calibration Objects"		
Include CID 4052 "Phantom Devices"		

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

Coding Scheme Designator	Code Value	Code Meaning
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
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: **20141110**

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)
DCM	126344	Shutter-Speed Model (SSM)

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 quantitification

Note

1. 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: **20141110**

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

Note

CID 4109 Model-Independent Dynamic Contrast Analysis Parameters

Type: Extensible
Version: ~~20141110~~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 $IAUGC_{BN}$ measurement in the claim of the QIBA DCE MRI Quantification Profile, though the concept itself is not specific to the modality or the contast 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**

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	Lesion	49755003	C0332447
SRT	T-AA621	Fovea centralis	67046006	C0016622

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	T-AA630	Optic nerve head	81016008	C0029127
DCM	111934	Disc-Fovea		
SRT	T-AA215	Entire Cornea	181162001	C1278889

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 5000 Languages

Context Group ID 5000 comprises the language tag coding scheme of RFC 4646. The Coding Scheme Designator (0008,0102) shall be IETF4646.

Note

1. The RFC 4646 coding scheme is constructed from a primary subtag component encoded using the 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.

2. RFC 4646 may be obtained at http://www.ietf.org/rfc/rfc4646.txt. RFC 4646 obsoletes RFC 3066 and RFC 1766, but is forward compatible with those specifications.

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
Include CID 6001 "Overall Breast Composition from BI-RADS®"		

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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
Include CID 6009 "Density Modifier from BI-RADS®"		

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
Include CID 6011 "Calcification Types from BI-RADS®"		

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
Include CID 6013 "Calcification Distribution Modifier from BI-RADS®"		

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
Include CID 6015 "Single Image Finding from BI-RADS®"				
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	Coding Scheme Version	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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
Include CID 6014 "Mammography Single Image Finding"		
Include CID 6017 "Composite Feature from BI-RADS®"		

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
Include CID 6019 "Clockface Location or Region from BI-RADS®"				
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
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
Include CID 6021 "Quadrant Location from BI-RADS®"		

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
Include CID 6023 "Side from BI-RADS®"		

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
Include CID 6025 "Depth from BI-RADS®"		

CID 6025 Depth from BI-RADS®

Note

From BI-RADS® Third Edition (National Mammography Database, E99)

Type: **Extensible**
Version: **20020904**

Table CID 6025. Depth from BI-RADS®

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	G-A105	Anterior	36592002	C1704448
SRT	G-A109	Middle	36263002	C0205098
SRT	G-A106	Posterior	82583001	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
Include CID 6027 "Assessment from BI-RADS®"		
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
Include CID 6029 "Recommended Follow-up from BI-RADS®"				
DCM	111121	Follow-up post biopsy as directed by clinician		
SRT	P0-006F1	Nuclear medicine procedure	371572003	C0203634
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: **20050822**

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-B0099	Ultrasound procedure	129126005	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
Include CID 6031 “Benign Pathology Codes from BI-RADS®”		
Include CID 6032 “High Risk Lesions Pathology Codes from BI-RADS®”		
Include CID 6033 “Malignant Pathology Codes from BI-RADS®”		

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: **20020904**

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	D7-90360	Cyst of breast	56726003	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-33410	Epidermal inclusion cyst	87595009	C0259770
SRT	M-36300	Edema	79654002	C0013604
SRT	M-90100	Fibroadenoma	65877006	C0206650
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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		
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		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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	Lympathic 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		
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		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20091029**

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-10044	Collimator	129461008	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-13510	Suture material	2760009	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
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	

Coding Scheme Designator	Code Value	Code Meaning	Source
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)	
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

Coding Scheme Designator	Code Value	Code Meaning
DCM	111089	Lesion Sensitivity
DCM	111090	Case Specificity
DCM	111091	Image Specificity

CID 6050 Breast Procedure Reported

Type: **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: **20050822**

Table CID 6051. Breast Procedure Reason

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
Include CID 6061 "Breast Imaging Procedure Modifiers"				

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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-C0610	Brachytherapy	14500008	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
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: **20050822**

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)		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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-20681	O/E - lymphadenopathy NOS	164153008	C0437619
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
Include CID 6015 "Single Image Finding from BI-RADS®"				

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
Include CID 6059 "Breast Implant Types"		
Include CID 6060 "Breast Biopsy Techniques"		
Include CID 6061 "Breast Imaging Procedure Modifiers"		
Include CID 12224 "Ultrasound Image Modes"		

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
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: **20050822**

Table CID 6060. Breast Biopsy Techniques

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	P1-03005	Lumpectomy	71222002	C0851238
SRT	P1-43850	Mastectomy		
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

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.

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: **20040112**

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-0147C	Hematoma - postoperative	230137007	C0338380
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-A5581	Vasovagal attack	127380002	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
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: **20050822**

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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	D7-90360	Simple cyst of breast	56726003	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: **20040112**

Table CID 6065. Instrument Approach

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	G-A109	Medial	36263002	C0205098
SRT	G-A104	Lateral	49370004	C0205093
SRT	G-A116	Superior	43014004	C1282910
SRT	G-A115	Inferior	36885000	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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20040112**

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		
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		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
DCM	111558	BRCA3 breast cancer gene		
SRT	G-0325	Family history of breast cancer	275862002	C0559119
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20040112**

Table CID 6089. Substances

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	C-21005	Ethyl alcohol	32055008	C0001962
SRT	F-618FF	Amphetamine	373338002	C0002658
SRT	F-6166C	Marijuana derivative	373761003	C0304395
SRT	F-61C76	Cocaine	387085005	C0009170
SRT	F-61AC4	Heroin	387341002	C0011892
SRT	C-63A10	Lysergic acid diethlyamide	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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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
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		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
Include CID 6103 “Abnormal Lines Finding or Feature”		
Include CID 6104 “Abnormal Opacity Finding or Feature”		
Include CID 6105 “Abnormal Lucency Finding or Feature”		

Coding Scheme Designator	Code Value	Code Meaning
Include CID 6106 “Abnormal Texture Finding or Feature”		
Include CID 6109 “Radiographic Anatomy Finding or Feature”		
Include CID 6138 “Chest Non-lesion Object Type”		

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		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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 bronchiologram		
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
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
Include CID 6110 "Lung Anatomy Finding or Feature"		
Include CID 6111 "Bronchovascular Anatomy Finding or Feature"		
Include CID 6112 "Pleura Anatomy Finding or Feature"		
Include CID 6113 "Mediastinum Anatomy Finding or Feature"		
Include CID 6114 "Osseous Anatomy Finding or Feature"		
Include CID 6116 "Muscular Anatomy"		
Include CID 6117 "Vascular Anatomy"		
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20030108**

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-D2236	Pectoral girdle	34772009	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	Scalenous 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"				
SRT	T-42300	Aortic arch	57034009	C0003489
SRT	T-42310	Aortic isthmus	88593004	C0226019
DCM	112102	Aortic knob		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
SRT	T-28080	Hilum of lung	46750007	C0225701

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20030108**

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	G-A231	Acute	53737009	C0205178
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: **20120822**

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-13510	Suture material	2760009	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	Posttreatment
DCM	126075	Eligibility
UMLS	C1699701	Unscheduled
UMLS	C1708760	Nadir

Note

1. (C1442488, UMLS, "Baseline") is ~~(~~(C25213, NCIt, "Baseline")~~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")~~C103341, NCIt, "Pretreatment")~~.
3. (C1708760, UMLS, "Nadir") is ~~(~~(C43517, NCIt, "Nadir")~~C43517, NCIt, "Nadir"),~~, and is a synonymn for "lowest", though "nadir" is more commnly 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~~ 112029	WHO
DCM	126080	RECIST 1.0
DCM	126081	RECIST 1.1
NCIt	~~C114879~~ 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
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
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
Include CID 7470 "Linear Measurements"		
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		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20120822**

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-13510	Suture material	2760009	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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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 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

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
LN	43468-8	X-Ray Report	C1714805
LN	38269-7	DEXA Skeletal System Study Report	C1526358
DCM	111400	Breast Imaging Report	
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
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: ~~**20140627**~~**20150915**

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

Coding Scheme Designator	Code Value	Code Meaning
DCM	113010	Quality Issue
DCM	113013	Best In Set
DCM	113018	For Printing
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

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
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 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 7030 Institutional Departments, Units and Services

Type: **Extensible**
Version: **20090717**

Table CID 7030. Institutional Departments, Units and Services

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
SRT	R-421EB	Clinical Biochemistry	310076001	C0587609
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	R-30280	Cardiothoracic Surgery	309969008	C0587505
SRT	R-30276	Child and Adolescent Psychiatry	309959002	C0587495
SRT	R-3023B	Clinical Oncology	309902002	C0587443
SRT	R-3028E	Colorectal Surgery	309983005	C0587519
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
SRT	R-3023D	Intensive Care	309904001	C0021708
SRT	R-3061E	Medical Intensive Care	441994008	C2711734
SRT	R-30270	Medical Microbiology	309956009	C0587492
SRT	R-3025D	Nephrology	309936008	C0587474
SRT	R-305CE	Neonatal Intensive Care	405269005	C0021709
SRT	R-3025E	Neurology	309937004	C0587475
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	R-30269	Pediatric Oncology	309948006	C0587485
SRT	R-305E9	Pediatric Surgery	418885000	C0587527
SRT	S-8000A	Primary Care Department	441480003	C2711449
SRT	R-30261	Rehabilitation	309940004	C0587478
SRT	R-302A2	Physiotherapy	310464005	C0587975
SRT	R-30297	Plastic Surgery	309992008	C0587528
SRT	R-30275	Psychiatry	309958005	C0587494
SRT	R-42219	Psychology	310123008	C0587654
SRT	R-3024B	Pulmonology	309918008	C0587456
SRT	R-3023C	~~Radiotheraphy~~Radiotherapy	309903007	C0587444
SRT	R-3027B	Radiology	309964003	C0587500
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
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 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 7042 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. 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
DCM	113104	Clean Structured Content Option

Coding Scheme Designator	Code Value	Code Meaning
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 7140 Brain Structures for Volumetric Measurements

Type: **Extensible**
Version: **20131010**

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-A1504	Cranial Subarachnoid Space	362312008	C1284571
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
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-A1504, 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 Altered 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**

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”		
Include CID 4028 “Craniofacial Anatomic Regions”		
Include CID 4030 “CT, MR and PET Anatomy Imaged”		
Include CID 4040 “Endoscopy Anatomic Regions”		
Include CID 6040 “Non-lesion Object Type”		
Include CID 6109 “Radiographic Anatomy Finding or Feature”		
Include CID 6138 “Chest Non-lesion Object Type”		
Include CID 7152 “Cardiac Structure Segmentation Types”		
Include CID 7153 “CNS Tissue Segmentation Types”		
Include CID 7154 “Abdominal Organ Segmentation Types”		
Include CID 7155 “Thoracic Tissue Segmentation Types”		
Include CID 7156 “Vascular Tissue Segmentation Types”		
Include CID 7157 “Device Segmentation Types”		
Include CID 7158 “Artifact Segmentation Types”		
Include CID 7159 “Lesion Segmentation Types”		
Include CID 7160 “Pelvic Organ Segmentation Types”		
Include CID 7161 “Physiology Segmentation Types”		
Include CID 7165 “Abstract Segmentation Types”		
Include CID 7166 “Common Tissue Segmentation Types”		
Include CID 7167 “Peripheral Nervous System Segmentation Types”		

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~~ 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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
SRT	T-D4600	Omentum	27398004	C0028977
SRT	T-D4425	Peritoneal cavity	83670000	C1704247
SRT	T-D4400	Peritioneum	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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20130617**

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-40210	Media	27208005	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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: ~~20140627~~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: ~~20130617~~20160119

Table CID 7166. Common Tissue Segmentation Types

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	T-41066	Artery	275989006	C0555806
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-~~1A310~~D0060	Organ	~~286100~~113343008	~~C1285092~~C0229983
SRT	T-01000	Skin	39937001	C1123023
SRT	T-17010	Tendon	13024002	C0039508

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	T-D0050	Tissue	85756007	C0040300
SRT	T-70060	Urine	78014005	C0042036
SRT	T-4806E	Vein	181378009	C0447146

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: ~~**20141110**~~**20160119**

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
Include CID 4033 "MR Proton Spectroscopy Metabolites"				
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		
DCM	110807	Field Map MR Signal Intensity		
DCM	110808	Fractional Anisotropy		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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		
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		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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	112031	Attenuation Coefficient		
DCM	110852	MR signal intensity		
DCM	110853	Binary Segmentation		
DCM	110854	Fractional Probabilistic Segmentation		
DCM	110855	Fractional Occupancy Segmentation		
DCM	126393	R1		
DCM	126394	R2		
DCM	113098	Magnetization Transfer Ratio		
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	126403	SUVbsa		
DCM	126404	SUVibw		

CID 7181 Abstract Multi-dimensional Image Model Component Units

Type: **Extensible**
Version: **20141110**

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”		

Coding Scheme Designator	Code Value	Code Meaning
UCUM	1	no units
UCUM	{ratio}	ratio
UCUM	[hnsf'U]	Hounsfield Unit
UCUM	{counts}	Counts
UCUM	{counts}/s	Counts per second
UCUM	[arb'U]	arbitrary unit
UCUM	cm/s	centimeter/second
UCUM	mm/s	millimeter/second
UCUM	dB	decibel
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
Include CID 7460 “Units of Linear Measurement”		

Coding Scheme Designator	Code Value	Code Meaning
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
Include CID 4033 "MR Proton Spectroscopy Metabolites"		
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
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

Coding Scheme Designator	Code Value	Code Meaning
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: ~~20110609~~**20151113**

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

CID 7203 Image Derivation

Type: **Extensible**
Version: ~~20141110~~**20151113**

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

Coding Scheme Designator	Code Value	Code Meaning
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*
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	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

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

Coding Scheme Designator	Code Value	Code Meaning
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~~ 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

Coding Scheme Designator	Code Value	Code Meaning
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

Coding Scheme Designator	Code Value	Code Meaning
DCM	110815	Volumetric Diffusion Dzz Component

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
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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		
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
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 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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. 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		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	J-0714B	Circulating Nurse	413854007	C1531633
DCM	121101	Standby		
DCM	113850	Irradiation Authorizing		
DCM	113851	Irradiation Administering		

CID 7454 ~~Species~~Animal Taxonomic Rank Values

Type: Extensible
Version: ~~20060822~~20160211

Table CID 7454. Animal Taxonomic Rank Values

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT ~~SNOMED-CT Concept ID~~ Concept ID	UMLS ~~UMLS Concept Unique ID~~ Concept Unique ID	ITIS TSN
SRT	L-~~85B00~~85003	homo sapiens	~~30996001~~337915000	C0086418	180092
SRT	L-~~80A00~~000F9	~~Feline species~~Felis	~~23826000~~388626009	~~C0007450~~C0524517	180586
SRT	L-00376	Felis catus (domestic cat)	448169003	C0007450	183798
SRT	L-~~80400~~000A9	~~Equine species~~Equus	~~26570006~~388445009	~~C0019944~~C1265527	180689
SRT	L-8A102	Equus caballus (domestic horse)	35354009	C0019944	180691
SRT	L-~~80300~~8C3FD	~~Ovine species~~Ovis	~~36295001~~388254009	~~C1123019~~C0036945	180709
SRT	L-8C336	Ovis aries (domestic sheep)	125099002	C1123019	552475
SRT	L-~~80500~~8B1FB	~~Porcine species~~Sus	~~42018006~~388393002	~~C3665571~~C1265533	180721
SRT	L-~~80200~~8B100	~~Caprine species~~Sus scrofa	~~685520007~~8678003	~~C1510458~~C1135183	180722
SRT	L-~~80700~~8C3FB	~~Canine species~~Capra	~~69986009~~388249000	~~C1280551~~C1265549	180714
SRT	L-~~80100~~8C306	~~Bovine species~~Capra hircus (domestic goat)	~~79058000~~125097000	~~C0007452~~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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT ~~SNOMED-CT Concept ID~~ Concept ID	UMLS ~~UMLS Concept Unique ID~~ Concept Unique ID	ITIS TSN
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	
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
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
DCM	126061	Energy of GLCM
DCM	126062	Homogeneity of GLCM
DCM	126063	Contrast of GLCM
DCM	126064	Dissimilarity of GLCM
DCM	126065	ASM of GLCM
DCM	126066	Correlation of GLCM

CID 7468 Texture Measurements

Type: **Extensible**
Version: **20141110**

Table CID 7468. Texture Measurements

Coding Scheme Designator	Code Value	Code Meaning
Include CID 7467 "Grey Level Co-occurrence Matrix Measurements"		
DCM	126050	Fractal Dimension

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
Include CID 7180 "Abstract Multi-dimensional Image Model Component Semantics"		
Include CID 7470 "Linear Measurements"		
Include CID 7471 "Area Measurements"		
Include CID 7472 "Volume Measurements"		

CID 7470 Linear Measurements

Type: **Extensible**
Version: **20050822**

Table CID 7470. Linear Measurements

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	G-A22A	Length	131193001	C1444754
DCM	121211	Path length		
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: ~~**20110818**~~**20151113**

Table CID 7480. Breed

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
Include CID 7486 "Mixed Breeds"				
SRT	L-80139	Hereford cattle superbreed	125074003	C0324066

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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	Maremmana 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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	Wurttemberg horse breed	131965001	C1296381
SRT	L-804E1	Xilingol horse breed	131966000	C1296382
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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	Breitov 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	Aksaî 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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	Ghori pig breed	132186003	C1296530
SRT	L-8062C	Jianli pig breed	132187007	C1296531
SRT	L-8062D	Lucanian pig breed	132188002	C1269256
SRT	L-8062E	Maremmana 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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-80010	Wuzhishan pig breed	39866004	C0003062
SRT	L-80667	Philippine Native pig breed	132223004	C1269263
SRT	L-80668	Sinclair Miniature pig breed	132224005	C1269264
SRT	L-80669	Saddleback pig breed	132225006	C1296560
SRT	L-8066A	Yucatan Minature 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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	Jiaxing 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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-807E6	Bordeaux Dog breed	132375006	C1296679
SRT	L-807E7	Brandlbracke dog breed	132376007	C1296668
SRT	L-807E8	Braque d'Ariége 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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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-808C9	Dingo dog breed	132425008	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 Agår 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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 Patrijshond 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
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 Artésian 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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 Podhalandski 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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-Saintongeois 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
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 Ovcar dog breed	132624002	C1296893
SRT	L-809E6	Kromfohrländer dog breed	132625001	C1321468
SRT	L-809E7	Havanese dog breed	132626000	C1296894
SRT	L-809E8	American lamalese dog breed	132627009	C1269318
SRT	L-809E9	Perro de Pressa Canario dog breed	132628004	C1296860
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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-80A96	Pixiebob cat breed	132674000	C1563194
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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 Wurttemburg 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
SRT	L-8A1A7	Schwarzwalder 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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	Ardennes horse breed	133116001	C1297273
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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 Ijsselvee 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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	Marinhoa 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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	Jijjiga 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
SRT	L-8BB29	Kaningan 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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-8BB55	Mere cattle breed	133726001	C1269433
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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-80A50	Shorthaired cat	34218001	C0324510
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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 Pyrenee 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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-80506	Beltsville pig #1 pig breed	82013003	C0324196
SRT	L-80507	Beltsville pig #2 pig breed	50859001	C0324197
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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-80551	CPF pig #1 pig breed	4053009	C0324223
SRT	L-80552	CPF pig #2 pig breed	69487005	C0324224
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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-80621	Maryland pig #1 pig breed	51690007	C0324269
SRT	L-80622	Middle white pig breed	82909008	C0324270
SRT	L-80630	Minnesota pig breed	61083001	C0324271
SRT	L-80631	Minnesota pig #1 pig breed	73944009	C0324272
SRT	L-80632	Minnesota pig #2 pig breed	72122009	C0324273
SRT	L-80633	Minnesota pig #3 pig breed	20279000	C0324274
SRT	L-80640	Montana pig breed	74517004	C0324275
SRT	L-80641	Montana pig #1 pig breed	40350000	C0324276
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning
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
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: **20130617**

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.

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Notes
SRT	T-D0788	Carpus	361290000	C1283836	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 vertrebrae	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	
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	

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	Notes
SRT	T-11AD0	Sacrum	54735007	C0036037	
SRT	T-D2220	Shoulder	16982005	C0037004	
SRT	T-11100	Skull	89546000	C0037303	
SRT	T-15728	Stiffle	116010006	C1456798	
SRT	T-11096	Tarsus	264228001	C1280697	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-70000	Urinary tract	35461009	C0042027	
SRT	T-D8040	Wing	53036007	C0043189	

Note

1. T-12771 is used in preference to (T-12770, SRT, "Calcaneus").
2. T-D0788 is used in preference to carpal 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-11096 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

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-40AE1	Dorsal 60 degree lateral-palmaromedial oblique	442639001	C2711552	D60L-PaMO	D60L_PAMO
SRT	R-40ACF	Dorsolateral-plantaromedial oblique	442610001	C2711357	DL-PlMO	DL_PLMO
SRT	R-40ACB	Dorsal 35 degree lateral-plantaromedial oblique	442606004	C2711526	D35L-PlMO	D35L_PLMO
SRT	R-40AB6	Dorsal 40 degree lateral-plantaromedial oblique	442585008	C2711113	D40L-PlMO	D40L_PLMO
SRT	R-40AE4	Dorsal 45 degree lateral-plantaromedial oblique	442643002	C2711847	D45L-PlMO	D45L_PLMO
SRT	R-40AC6	Dorsal 60 degree lateral-plantaromedial oblique	442601009	C2711458	D60L-PlMO	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
SRT	R-40AC7	Dorsal 60 degree medial-palmarolateral oblique	442602002	C2711324	D60M-PaLO	D60M_PALO
SRT	R-40AD0	Dorsomedial-plantarolateral oblique	442611002	C2711889	DM-PlLO	DM_PLLO
SRT	R-40ACD	Dorsal 35 degree medial-plantarolateral oblique	442608003	C2711459	D35M-PlLO	D35M_PLLO
SRT	R-40AD3	Dorsal 40 degree medial-plantarolateral oblique	442622003	C2711796	D40M-PlLO	D40M_PLLO
SRT	R-40AC5	Dorsal 45 degree medial-plantarolateral oblique	442600005	C2711927	D45M-PlLO	D45M_PLLO
SRT	R-40AE3	Dorsal 60 degree medial-plantarolateral oblique	442641000	C2711111	D60M-PlLO	D60M_PLLO
SRT	R-40AA9	Dorsopalmar	441505008	C2711365	DPa	DPA
SRT	R-102C4	Dorsoplantar	399335002	C1302328	DPl	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-PlDiO	DPR_PLDIO
SRT	R-40AD5	Dorsal 65 degree proximal-plantarodistal oblique	442624002	C2711492	D65Pr-PlDiO	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-medioplantarodistal oblique	442631003	C2711280	LDPr-MplDiO	LDPR_MPLDIO

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-40AEC	Lateral 45 deg dorsal 50 deg proximal-medioplantarodistal 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
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	PlL-DMO	PLL_DMO
SRT	R-40AEF	Plantar 60 degree lateral-dorsomedial oblique	442675004	C2711846	Pl60L-DMO	PL60L_DMO
SRT	R-40AD6	Plantaroproximal-dorsodistal oblique	442625001	C2711623	PlPr-DdiO	PLPR_DDIO
SRT	R-40AC8	Plantar 75 degree proximal-dorsodistal oblique	442603007	C2711019	Pl75Pr-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

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-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: **20150106**

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-C4239	anterior jugular lymph node	168063007	C0229736
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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-C4510	mesenteric lymph node	84749006	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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20150106**

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-53131	base of tongue	7283002	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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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.

CID 7702 Projection and Thalamic Fibers

Type: **Extensible**
Version: **20150106**

Table CID 7702. Projection and Thalamic Fibers

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
NEU	1319	corticobulbar tract		C1184617
NEU	1320	corticospinal tract		C0936236
SRT	T-A3700	internal capsule	85637007	C0152341
SRT	T-A3800	external capsule	10517005	C0228313
SRT	T-D0829	auditory (acoustic) radiation (geniculotemporal tract)	410726006	C1455736
SRT	T-A2880	optic radiation (geniculo-calcarine tract, geniculostriate pathway)	70105001	C0228277
NEU	1466	inferior optic radiation (Meyer's loop)		C3498430
NEU	3473	superior optic radiation (Baum's loop)		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
NEU	1726	anterior thalamic radiation		C2338170
NEU	2081	superior thalamic radiation		C3498751
NEU	2082	inferior thalamic radiation		C2332665
NEU	2083	posterior thalamic radiation		C2336194

Note

1. 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.

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	superior longitudinal fasciculus		
DCM	110703	superior longitudinal fasciculus I		
DCM	110704	superior longitudinal fasciculus II		
DCM	110705	superior longitudinal fasciculus III		
NEU	2063	arcuate fasciculus		
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. 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
NEU	286	stria terminalis		C0175243

CID 7705 Commissural Fibers

Type: **Extensible**
Version: **20150106**

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
SRT	T-A2760	forceps minor	42932006	C0152325
SRT	T-A2750	forceps major	80049006	C0809941
SRT	T-A2790	posterior commissure	28997003	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
Include CID 7701 "Fiber Tracts In Brainstem"				
Include CID 7702 "Projection and Thalamic Fibers"				
Include CID 7703 "Association Fibers"				
Include CID 7704 "Limbic System Tracts"				
Include CID 7705 "Commissural Fibers"				
Include CID 7706 "Cranial Nerves"				
Include CID 7707 "Spinal Cord Fibers"				
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
Include CID 8101 "Container Types"				
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
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: **20080626**

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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
SRT	P3-4000F	Block step sectioning	434475008	C2316876
SRT	P3-4500A	Touch preparation (procedure)	430854000	C2316781
SRT	P3-00048	Smear procedure	386147002	C1272593

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: **20080626**

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-2288B	alcian blue stain	406994007	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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	C-22840	cresyl violet stain	406959000	C0056484
SRT	C-22833	crystal ponceau stain	68459007	C0303867
SRT	C-2283D	crystal violet stain	406956007	C0017440
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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	C-2287C	methyl violet stain	406987009	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	mucicarmine 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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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-22931	safranine O stain	1819005	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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	C-2282D	Sudan stain	314900004	C1282434
SRT	C-22827	sunset yellow FCF stain	22968009	C0060120
SRT	C-2285A	tartrate resistant acid phosphatase	406970007	C0297331
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning
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
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” ~~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~~TID 8010 “Slide Imaging Parameters”~~ 8010Slide 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

Coding Scheme Designator	Code Value	Code Meaning
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	

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
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	
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	

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
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	
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	

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
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: **20140331**

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/utils/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: **20020904**

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
DCM	110004	Computer Aided Detection
DCM	110005	Interpretation
DCM	110006	Transcription
DCM	110007	Report Verification
DCM	110008	Print
DCM	110009	No subsequent Workitems
DCM	110013	Media Import

CID 9232 Non-DICOM Output Types (Retired)

See PS3.16-2011.

CID 9241 Radiotherapy General Workitem Definition

Type: **Extensible**
Version: ~~**20130408**~~**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

Coding Scheme Designator	Code Value	Code Meaning
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
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**

Table CID 9250. Scheduled Processing Parameter Concept Codes for RT Treatment

Coding Scheme Designator	Code Value	Code Meaning
DCM	121712	Treatment Delivery Type

CID 9300 Procedure Discontinuation Reasons

Type: **Extensible**
Version: **20110128**

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
Include CID 9301 "Modality PPS Discontinuation Reasons"		
Include CID 9302 "Media Import PPS Discontinuation Reasons"		

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
Include CID 9402 "IEC61217 Gantry Position Parameters"		
Include CID 9403 "IEC61217 Patient Support Position Parameters"		

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

Coding Scheme Designator	Code Value	Code Meaning
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**

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

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

Coding Scheme Designator	Code Value	Code Meaning
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	CTDIfreeair to E conversion via MC computation
DCM	113802	DLP to E conversion via measurement
DCM	113803	CTDIfreeair to E conversion via measurement

CID 10013 CT Acquisition Type

Type: **Extensible**
Version: **20071031**

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		

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

Coding Scheme Designator	Code Value	Code Meaning
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: **20120171**

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

CID 10025 Radiation Dose Reference Points

Type: **Extensible**
Version: **20120406**

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

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 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
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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
SRT	T-59300	Colon	71854001	C0009368
SRT	T-56000	Esophagus	32849002	C0014876
SRT	T-AA700	Eye lenses	78076003	C0023317
SRT	T-63000	~~Gall bladder~~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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
Include CID 3102 "Rest-Stress"				
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	Cockroft-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	Cockroft-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 CTDIvol
DCM	113839	Effective Dose

Instruction to Editor: No change to the following Context Groups

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

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
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
Include CID 3261 "Stress Protocols"				

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
Include CID 3207 "Stress Test Procedure Phases"				
Include CID 12102 "Temporal Periods Relating to Procedure or Therapy"				
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

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
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	Tranverse 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

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
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
Include CID 12013 “Gestational Age Equations and Tables”		
Include CID 12014 “OB Fetal Body Weight Equations and Tables”		
Include CID 12015 “Fetal Growth Equations and Tables”		
Include CID 12016 “Estimated Fetal Weight Percentile Equations and Tables”		

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
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

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
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
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

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
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
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
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

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
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
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: **20030130**

Table CID 12016. Estimated Fetal Weight Percentile Equations and Tables

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
LN	33183-5	FWP by GA, Hadlock 1991	C1315654
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

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
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 MA, Hadlock 1985	C1315661

CID 12017 Growth Distribution Rank

Type: **Extensible**
Version: **20030130**

Table CID 12017. Growth Distribution Rank

~~Code~~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: **20141110**

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	T-D06B6	Nuchal region of scalp	244070006	C0448786
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: **20050110**

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-102BC	Internal Carotid Artery C6 segment	415644008	C1532999
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: **20030327**

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-48052	Basilic vein	360725008	C1283520
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: **20101103**

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-49423	Lateral calf perforator	264055002	C0447136
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-4942C	Thigh perforator	264230004	C0447134
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: **20030327**

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	G-A115	Inferior	36885000	C0542339
SRT	G-A104	Lateral	49370004	C0205093
SRT	G-A101	Left	7771000	C0205091
SRT	G-A332	Main	63161005	C0205225
SRT	G-A109	Medial	36263002	C0205098
SRT	G-A100	Right	24028007	C0205090
SRT	G-A116	Superior	43014004	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"				
LN	17978-8	Mitral Valve A-Wave Peak Velocity		C0801028

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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”				
Include CID 12222 “Orifice Flow Properties”				
LN	18096-8	Pulmonic Valve Area by continuity		C0801145

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
Include CID 12220 "Echocardiography Common Measurements"				
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
Include CID 12220 "Echocardiography Common Measurements"				
Include CID 12222 "Orifice Flow Properties"				
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
Include CID 12220 "Echocardiography Common Measurements"			
LN	18015-8	Aortic Root Diameter	C0801065
LN	18011-7	Aortic Arch Diameter	C0801061
LN	18012-5	Ascending Aortic Diameter	C0801062

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
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
Include CID 12220 "Echocardiography Common Measurements"			

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
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
Include CID 12220 "Echocardiography Common Measurements"			
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
Include CID 12220 "Echocardiography Common Measurements"		
Include CID 12222 "Orifice Flow Properties"		
Include CID 12250 "Cardiac Ultrasound Common Linear Measurements"		

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: **20030918**

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"		

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: **20100317**

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	F-32011	End Diastole	255254001	C0442709
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
Include CID 12235 "Mitral Valve Anatomic Sites"				
Include CID 12223 "Echocardiography Stroke Volume Origin"				
Include CID 12241 "Tricuspid Valve Finding Sites"				
Include CID 12242 "Aortic Valve Finding Sites"				
Include CID 12243 "Left Ventricle Finding Sites"				
Include CID 12244 "Congenital Finding Sites"				
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
Include CID 12219 "Pulmonary Vein Modifiers"		

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: **20100317**

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	P1-31926	Creation of conduit of right atrium and pulmonary artery	56527009	C0190010
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
SRT	P0-0530F	Repair of total anomalous pulmonary venous connection	174830006	C0397150

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20100317**

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	D3-29013	Mitral valve prolapse	45023003	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 type	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	D4-31159	Ventricular Septal Defect (VSD)	123715003	C1290481
SRT	D4-31040	Corrected transposition of great vessels	83799000	C0344616
SRT	D3-29082	Pulmonary atresia with intact ventricular septum	253590009	C0344975

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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: **20100317**

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-A22A	Length	131193001	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
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
SRT	F-31000	Blood Pressure	75367002	C0005823
LN	59086-9	Heart Rate-Corrected Ejection Time		C2923412

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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
LN	59095-0	Time to Left Ventricle S Tissue Velocity		C2923425
LN	59096-8	Time to Left Ventricle E Tissue Velocity		C2923427

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
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"		
Include CID 12254 "Cardiac Ultrasound Hemodynamic Measurements"		

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
Include CID 12220 "Echocardiography Common Measurements"			
Include CID 12222 "Orifice Flow Properties"			
Include CID 12254 "Cardiac Ultrasound Hemodynamic Measurements"			
Include CID 3612 "Blood Velocity Measurements"			
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
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"			
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
Include CID 12261 "Cardiac Ultrasound Pulmonary Vein"		

Coding Scheme Designator	Code Value	Code Meaning
Include CID 12262 "Cardiac Ultrasound Pulmonary Valve"		

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
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 3612 "Blood Velocity Measurements"		

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
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 12255 "Cardiac Ultrasound Myocardium Measurements"				
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
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	UMLS Concept Unique ID
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
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"		

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
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"			
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
Include CID 12257 "Cardiac Ultrasound Left Ventricle"		
Include CID 12258 "Cardiac Ultrasound Right Ventricle"		
Include CID 12262 "Cardiac Ultrasound Pulmonary Valve"		
Include CID 12270 "Cardiac Ultrasound Aortic Valve"		

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
Include CID 12262 "Cardiac Ultrasound Pulmonary Valve"		
Include CID 12270 "Cardiac Ultrasound Aortic Valve"		

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	Tranverse 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: **20100317**

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	G-A109	Medial	36263002	C0205098

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	G-A105	Anterior	36592002	C1704448
SRT	G-A106	Posterior	82583001	C0205095
SRT	G-A115	Inferior	36885000	C0542339
SRT	G-A119	Distal	46053002	C0205108
SRT	G-A118	Proximal	40415009	C0205107
SRT	G-A109	Middle	36263002	C0205098

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: **20100317**

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	D4-31320	Common Atrium	69524004	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: **20100317**

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	Neoaortic 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 Sites

Type: **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 Sites

Type: **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

C Acquisition Context Module and Protocol Context Templates (Normative)

This Annex specifies the content of Templates for Acquisition and Protocol Context required by DICOM IODs.

templates for Acquisition and Protocol 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	(109081, DCM, "Glucose Measurement Date")	1	MC	IFF Row 1 is present	
3	TIME	(109082, DCM, "Glucose Measurement Time")	1	MC	IFF Row 1 is present	

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")	
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 [*Namespace ID*]^[*Universal ID*^ *Universal ID Type*], where *Namespace ID*identifies an entity within the local namespace or domain, *Universal ID*is a universal or unique identifier for an entity, and *Universal ID Type*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., [*Namespace ID*]^[*Universal ID*^*Universal ID Type*]
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 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 Time")	1	U		
5	>	DATETIME	EV (123004, DCM, "Radiopharmaceutical Stop Time")	1	U		
6	>	NUMERIC	EV (123005, DCM, "Radiopharmaceutical Volume")	1	U		UNITS = DT (cm3, UCUM, "cm3")
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 (109081, DCM, "Glucose Measurement Date")	1	M		
14	>	TIME	EV (109082, DCM, "Glucose Measurement Time")	1	M		

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	Notes
ARCHIVE	Archive	~~Archive device~~A device, process or method that stores images and other objects for a prolonged period of time.	
AR	Autorefraction	~~Autorefraction device~~An acquisition device, process or method that measures autorefraction.	
AS	*Angioscopy*	~~Angioscopy device~~An acquisition device, process or method that records images during angioscopy.	*Retired*
AU	Audio	~~Audio object~~An acquisition device, process or method that records audio.	
BDUS	Ultrasound Bone Densitometry	~~Ultrasound Bone Densitometry (modality)~~An acquisition device, process or method that performs ultrasound bone densitometry.	
BI	Biomagnetic imaging	~~Biomagnetic imaging device~~An acquisition device, process or method that performs biomagnetic imaging.	
BMD	Bone Mineral Densitometry	~~Bone Mineral Densitometry~~An acquisition device, process or method that performs bone mineral densitometry by X-Ray ~~(modality)~~, including dual-energy X-Ray absorptiometry (DXA) and morphometric X-Ray absorptiometry (MXA).	
CAD	Computer Assisted Detection/Diagnosis	~~Computer Assisted Detection/Diagnosis device~~An image processing device, process or method that performs computer assisted detection or diagnosis.	
CAPTURE	Image Capture	~~Image Capture Device,~~An acquisition device, process or method that performs image capture, includes video capture.	
CD	*Color flow Doppler*	~~Color flow Doppler~~An acquisition device, process or method that performs color flow Doppler.	*Retired* *Replaced by (US, DCM, "Ultrasound")*
CF	*Cinefluorography*	~~Cinefluorography~~An acquisition device, process or method that performs cinefluorography.	*Retired* *Replaced by (RF, DCM, "Radiofluoroscopy")*
COMP	Computation Server	~~Computation Server~~A device, process or method that performs computation as a service; includes radiotherapy planning.	
CP	*Culposcopy*	~~Culposcopy~~An acquisition device, process or method that records images during culposcopy.	*Retired*
CR	Computed Radiography	~~Computed Radiography device~~An acquisition device, process or method that performs computed radiography.	

Code Value	Code Meaning	Definition	Notes
CS	*Cystoscopy*	~~Cystoscopy~~An acquisition device, process or method that records images during cystoscopy.	*Retired*
CT	Computed Tomography	~~Computed Tomography device~~An acquisition device, process or method that performs computed tomography.	
DD	*Duplex Doppler*	~~Duplex Doppler~~An acquisition device, process or method that performs duplex Doppler.	*Retired* *Replaced by (US, DCM, "Ultrasound")*
DF	*Digital fluoroscopy*	~~Digital fluoroscopy~~An acquisition device, process or method that performs digital fluoroscopy.	*Retired* *Replaced by (RF, DCM, "Radiofluoroscopy")*
DG	Diaphanography	~~Diaphanography device~~An acquisition device, process or method that performs diaphanography.	
DM	*Digital microscopy*	~~Digital microscopy~~An acquisition device, process or method that performs digital microscopy.	*Retired*
DOCD	Document Digitizer Equipment	~~Equipment that digitized~~A device, process or method that digitizes hardcopy documents and ~~imported~~imports them.	
DS	*Digital Subtraction Angiography*	~~Digital Subtraction Angiography~~An acquisition device, process or method that performs digital subtraction angiography.	*Retired* *Replaced by (XA, DCM, "X-Ray Angiography")*
DSS	Department System Scheduler	~~Department System Scheduler, workflow manager; includes RIS.~~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	~~Digital Radiography device~~An acquisition device, process or method that performs digital radiography.	
EC	*Echocardiography*	~~Echocardiography~~An acquisition device, process or method that performs echocardiography.	*Retired* *Replaced by (US, DCM, "Ultrasound")*
ECG	Electrocardiography	~~Electrocardiography device~~An acquisition device, process or method that performs electrocardiography.	
EPS	Cardiac Electrophysiology	~~Cardiac Electrophysiology device~~An acquisition device, process or method that performs cardiac electrophysiology.	
ES	Endoscopy	~~Endoscopy device~~An acquisition device, process or method that records images during endoscopy.	
F	Female	Female sex.	
FA	*Fluorescein angiography*	~~Fluorescein angiography~~An acquisition device, process or method that performs fluorescein angiography.	*Retired* *Replaced by (OP, DCM, "Ophthalmic photography")*
FC	Female changed to Male	Female sex changed to Male sex.	

Code Value	Code Meaning	Definition	Notes
FILMD	Film Digitizer	~~Film Digitizer~~A device, process or method that performs film digitization.	
FP	Female Pseudohermaphrodite	Female Pseudohermaphrodite.	
FS	*Fundoscopy*	~~Fundoscopy~~An acquisition device, process or method that records images during fundoscopy.	*Retired*
GM	General Microscopy	~~General Microscopy device~~An acquisition device, process or method that performs general microscopy.	
H	Hermaphrodite	Hermaphrodite.	
HC	Hard Copy	~~Hard Copy~~A device, process or method that creates images to be printed as hard copy.	
HD	Hemodynamic Waveform	~~Hemodynamic Waveform acquisition device~~An acquisition device, process or method that records hemodynamic waveforms.	
IO	Intra-oral Radiography	~~Intra-oral Radiography device~~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	~~Intravascular Ultrasound device~~An acquisition device, process or method that performs intravascular ultrasound.	
KER	Keratometry	~~Keratometry device~~An acquisition device, process or method that performs keratometry.	
KO	Key Object Selection	A device, process or method that creates Key Object Selection ~~object~~objects.	
LEN	Lensometry	~~Lensometry device~~An acquisition device, process or method that performs lensometry.	
LOG	Procedure Logging	~~Procedure Logging device~~A device, process or method that performs procedure Logging; includes cath lab logging.	
LP	*Laparoscopy*	~~Laparoscopy~~An acquisition device, process or method that records images during laparoscopy.	*Retired*
LS	Laser surface scan	~~Laser surface scan device~~An acquisition device, process or method that performs laser surface scanning.	
M	Male	Male sex.	
MA	*Magnetic resonance angiography*	~~Magnetic resonance angiography~~An acquisition device, process or method that performs magnetic resonance angiography.	*Retired* *Replaced by (MR, DCM, "Magnetic resonance")*
MC	Male changed to Female	Male sex changed to Female sex.	
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	~~Equipment that retrieved and imported objects from interchange~~A device, process or method that retrieves and imports objects from Interchange Media.	
MG	Mammography	~~Mammography device~~An acquisition device, process or method that performs mammography.	
MP	Male Pseudohermaphrodite	Male Pseudohermaphrodite.	

Code Value	Code Meaning	Definition	Notes
MR	Magnetic Resonance	~~Magnetic Resonance device~~An acquisition device, process or method that performs magnetic resonance imaging.	
MS	*Magnetic resonance spectroscopy*	~~Magnetic resonance spectroscopy~~An acquisition device, process or method that performs magnetic resonance spectroscopy.	*Retired* *Replaced by (MR, DCM, "Magnetic resonance")*
NEARLINE	Nearline	Instances need to be retrieved from relatively slow media such as optical disk or tape.	
NM	Nuclear Medicine	~~Nuclear Medicine device~~An acquisition device, process or method that performs nuclear medicine imaging.	
OAM	Ophthalmic Axial Measurements	~~Measurements of~~An acquisition device, process or method that measures the axial length of the eye~~, which are done by various devices~~.	
OCT	Optical Coherence Tomography	~~Modality device~~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	~~Ophthalmic photography modality~~An acquisition device, process or method that performs ophthalmic photography.	
OPM	Ophthalmic Mapping	~~Modality device~~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	~~Modality device~~An acquisition device, process or method that measures the refractive characteristics of the eye.	
OPT	Ophthalmic Tomography	~~Tomography of the eye acquired by a modality~~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	~~Modality device~~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	~~Presentation State object~~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	~~Positron~~An acquisition device, process or method that performs positron emission tomography (PET)~~ device~~.	
PX	Panoramic X-Ray	~~Panoramic X-Ray device~~An acquisition device, process or method that performs panoramic X-Rays.	
REG	Registration	~~Registration~~An image processing device, process or method that creates Registration objects.	

Code Value	Code Meaning	Definition	Notes
RF	Radiofluoroscopy	~~Radiofluoroscopy device~~An acquisition device, process or method that performs radiofluoroscopy.	
RG	Radiographic imaging	~~Radiographic~~An acquisition device, process or method that performs radiographic imaging (conventional film/screen).	
RT	Radiation Therapy Device	~~Radiation Therapy Device~~A device, process or method that delivers radiation therapy; includes linear accelerator, proton therapy.	
RTDOSE	Radiotherapy Dose	~~Radiotherapy Dose~~A device, process or method that records radiotherapy dose.	
RTIMAGE	Radiotherapy Image	~~Radiotherapy Imaging device~~An acquisition device, process or method that performs radiotherapy imaging; includes portal imaging.	
RTPLAN	Radiotherapy Plan	~~Radiotherapy Plan~~A device, process or method that produces radiotherapy plans.	
RTRECORD	Radiotherapy Treatment Record	~~Radiotherapy Treatment Record~~A device, process or method that records radiotherapy treatment records.	
RTSTRUCT	Radiotherapy Structure Set	~~Radiotherapy Structure Set~~A device, process or method that produces Radiotherapy Structure Sets.	
SEG	Segmentation	~~Segmentation~~An image processing device, process or method that performs segmentation.	
SM	Slide Microscopy	~~Slide Microscopy~~An acquisition device, process or method that performs slide microscopy.	
SMR	Stereometric Relationship	~~Stereometric image pairing modality~~A device, process or method that records relationships between stereometric image pairs.	
SR	Structured Report Document	~~Structured Report Document~~A device, process or method that creates Structured Report documents.	
SRF	Subjective Refraction	~~Subjective Refraction device~~An acquisition device, process or method that records subjective refraction.	
ST	*Single-photon emission computed tomography*	~~Single~~An acquisition device, process or method that performs single-*photon emission computed tomography (SPECT)* ~~device~~.	*Retired* *Replaced by (NM, DCM, "Nuclear Medicine")*
TG	Thermography	~~Thermography device~~An acquisition device, process or method that performs thermography.	
U	Unknown Sex	Unknown Sex.	
UNAVAILABLE	Unavailable	Instances cannot be retrieved.	
US	Ultrasound	~~Ultrasound device~~An acquisition device, process or method that performs ultrasound.	
VA	Visual Acuity	~~Visual Acuity device~~An acquisition device, process or method that measures visual acuity.	
VF	*Videofluorography*	~~Videofluorography~~An acquisition device, process or method that measures videofluorography.	*Retired* *Replaced by (RF, DCM, "Radiofluoroscopy")*
VIDD	Video Tape Digitizer Equipment	~~Equipment~~A device, process or method that digitizes video tape and imports it.	

Code Value	Code Meaning	Definition	Notes
WSD	Workstation	~~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 device~~angiography.	
XC	External-camera Photography	~~External-camera Photography device~~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, NOS	A voltage measurement not otherwise specified.	
109014	35% of thermal CO	A signal point that is 35% of the peak thermal cardiac output signal.	
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	*Diastolic pressure, average*	*The average of several diastolic pressure measurements*	*Retired. Replaced by (F-00E22, SRT, "Average diastolic blood pressure")*

Code Value	Code Meaning	Definition	Notes
109021	*Diastolic pressure nadir*	*The lowest pressure value excluding any undershoot artifact.*	*Retired. Replaced by (F-00E1F, SRT, "Minimum diastolic blood pressure")*
109022	*End diastole*	*The moment at the end of the diastolic phase of the cardiac cycle.*	*Retired. Replaced by (F-32011, SRT, "End diastole")*
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	*Mean blood pressure*	*The average blood pressure value, generally over 2 or more seconds*	*Retired. Replaced by (F-31150, SRT, "Mean blood pressure")*
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	*Systolic pressure, average*	*The average of several systolic blood pressure measurements.*	*Retired. Replaced by (F-00E14, SRT, "Average systolic blood pressure")*
109033	*Systolic peak pressure*	*The highest systolic blood pressure value excluding any overshoot artifact*	*Retired. Replaced by (F-00E11, SRT, "Maximum systolic blood pressure")*
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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	*Catheterization Procedure Phase*	*A subpart of a cardiac catheterization procedure*	*Retired. Replaced by (G-72BB, SRT, "Catheterization Procedure Phase")*
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 en electrophysiological procedure.	
109063	Pulse train definition	A means of defining a series of cardiac stimulation pulses.	
109070	*End of systole*		*Retired. Replaced by (R-FAB5B, SRT, "End systole")*
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).	

Code Value	Code Meaning	Definition	Notes
109083	Paced	There is a constant RR interval, which makes thresholding not required; see Cardiac Synchronization Technique (0018,9037). E.g., Pacemaker.	
109091	*Cardiac Stress State*	*Imaging after injection of tracer during increased cardiac workload or increased myocardial blood flow, achieved by either exercise or pharmacologic means.*	*Retired. Replaced by (F-05019, SRT, "Cardiac stress state").*
109092	Reinjection State	Imaging after injection of additional tracer under resting conditions.	
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	*Peak stress state*	*Peak Cardiac stress state*	*Retired. Replaced by (F-05028, SRT, "Peak stress state")*
109096	*Recovery state*	*Recovery from cardiac stress*	*Retired. Replaced by (F-05018, SRT, "Cardiac stress Recovery state")*
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.	May include the patient's voice, or the voice of staff present in the room, or an operator's voice (whether for the purpose of recording a narrative accompanying a procedure or not).
109111	Operator's narrative	The voice of a device operator, recorded during a procedure.	

Code Value	Code Meaning	Definition	Notes
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.	Such as might be recorded from an electronic stethoscope.
109115	Physiological audio signal	Any sound made by the human body.	May include the sound of the heart, but also sound from other organs, such as bowel sounds or bruits from vessels, or sounds of respiration. Not intended to include voice.
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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].	

Code Value	Code Meaning	Definition	Notes
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 1st image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109806	TG18-LN8-02 Pattern	The 2nd image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109807	TG18-LN8-03 Pattern	The 3rd image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109808	TG18-LN8-04 Pattern	The 4th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109809	TG18-LN8-05 Pattern	The 5th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109810	TG18-LN8-06 Pattern	The 6th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109811	TG18-LN8-07 Pattern	The 7th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109812	TG18-LN8-08 Pattern	The 8th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109813	TG18-LN8-09 Pattern	The 9th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109814	TG18-LN8-10 Pattern	The 10th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration series. See [AAPM OR 03].	

Code Value	Code Meaning	Definition	Notes
109815	TG18-LN8-11 Pattern	The 11th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109816	TG18-LN8-12 Pattern	The 12th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109817	TG18-LN8-13 Pattern	The 13th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109818	TG18-LN8-14 Pattern	The 14th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109819	TG18-LN8-15 Pattern	The 15th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109820	TG18-LN8-16 Pattern	The 16th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109821	TG18-LN8-17 Pattern	The 17th image in the AAPM TG18-LN8 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109822	TG18-LN8-18 Pattern	The 18th image in the AAPM TG18-LN8- set used for DICOM grayscale calibration. See [AAPM OR 03].	
109823	TG18-LN12-01 Pattern	The 1st 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 3rd image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109826	TG18-LN12-04 Pattern	The 4th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109827	TG18-LN12-05 Pattern	The 5th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	

Code Value	Code Meaning	Definition	Notes
109828	TG18-LN12-06 Pattern	The 6th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109829	TG18-LN12-07 Pattern	The 7th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109830	TG18-LN12-08 Pattern	The 8th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109831	TG18-LN12-09 Pattern	The 9th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109832	TG18-LN12-10 Pattern	The 10th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109833	TG18-LN12-11 Pattern	The 11th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109834	TG18-LN12-12 Pattern	The 12th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109835	TG18-LN12-13 Pattern	The 13th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109836	TG18-LN12-14 Pattern	The 14th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109837	TG18-LN12-15 Pattern	The 15th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109838	TG18-LN12-16 Pattern	The 16th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109839	TG18-LN12-17 Pattern	The 17th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	
109840	TG18-LN12-18 Pattern	The 18th image in the AAPM TG18-LN12 set used for DICOM grayscale calibration. See [AAPM OR 03].	

Code Value	Code Meaning	Definition	Notes
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].	
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].	

Code Value	Code Meaning	Definition	Notes
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].	
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]	

Code Value	Code Meaning	Definition	Notes
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].	
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].	

Code Value	Code Meaning	Definition	Notes
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].	

Code Value	Code Meaning	Definition	Notes
109902	ANG Pattern	The IEC ANG Pattern used for angular viewing evaluation. See [IEC 62563-1].	
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].	

Code Value	Code Meaning	Definition	Notes
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].	
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].	

Code Value	Code Meaning	Definition	Notes
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/smpte.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.	
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	Interpretation work item.	
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.	

Code Value	Code Meaning	Definition	Notes
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 RFC 3968.	
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.).	

Code Value	Code Meaning	Definition	Notes
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.	

Code Value	Code Meaning	Definition	Notes
110529	Discontinued Procedure Step rescheduling recommended	It is recommended that a new Procedure Step be scheduled to replace the Discontinued Procedure Step.	
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.	
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.	
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.	

Code Value	Code Meaning	Definition	Notes
110706	Perilesional White Matter	White matter that surrounds a lesion of interest. E.g., to identify the otherwise unclassified white matetr 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 that 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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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*	*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.*	*Retired. Replaced by (112031, DCM, "Attenuation Coefficient").*
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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	*Breast composition*	*Assessment of annotating tissues in breast; generally including fatty, mixed or dense*	*Retired. Replaced by (F-01710, SRT, "Breast composition").*
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	Purpose of Reference for Content Item of value type COMPOSITE or SCOORD
111008	Calcification Distribution	The type of distribution associated with detected calcifications.	
111009	Calcification Type	Identification of the morphology of detected calcifications.	

Code Value	Code Meaning	Definition	Notes
111010	Center	Purpose of reference for an SCOORD Content Item that identifies the central point of a finding or feature	Purpose of Reference for Content Item of value type COMPOSITE or SCOORD
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.	
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. 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	Purpose of Reference for Content Item of value type COMPOSITE or SCOORD

Code Value	Code Meaning	Definition	Notes
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	Purpose of Reference for Content Item of value type COMPOSITE or SCOORD
111041	Outline	Purpose of reference for an SCOORD Content Item that identifies the outline or bounding region of a finding or feature	Purpose of Reference for Content Item of value type COMPOSITE or SCOORD
111042	Pathology	The inferred type of disease associated with an identified feature.	
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	Purpose of Reference for Content Item of value type COMPOSITE or SCOORD
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.	

Code Value	Code Meaning	Definition	Notes
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. 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	Notes
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	*Density*	*A space-occupying lesion identified in a single image or projection*	*Retired. Replaced by (F-01796, SRT, "Mammography breast density").*
111104	*Individual Calcification*	*A single identified calcification*	*Retired. Replaced by (F-01776, SRT, "Individual Calcification").*
111105	*Calcification Cluster*	*Multiple calcifications identified as occupying a small area of tissue (less than 2 cc)*	*Retired. Replaced by (F-01775, SRT, "Calcification Cluster").*
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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	*Ultrasound*		*Retired. Replaced by (P5-B0099, SRT, "Ultrasound procedure").*
111138	Old films for comparison	Obtain previous mammography studies to compare to present study.	
111139	*Ductography*	*A medical procedure used for the sampling of mammary duct tissue*	*Retired. Replaced by (P5-40060, SRT, "Mammary ductogram").*
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.	

Code Value	Code Meaning	Definition	Notes
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.	
111159	Feature detected on images from multiple modalities	The interpreted data set contains images from multiple modalities.	
111168	*Scar tissue*	*The fibrous tissue replacing normal tissues destroyed by disease or injury*	*Retired. Replaced by (M-78060, SRT, "Scar tissue").*
111170	*J Wire*	*A medical appliance used for localization of non palpable breast lesions to insure that the proper area is removed in a surgical biopsy*	*Retired. Replaced by (A-1016B, SRT, "J Wire").*
111171	*Pacemaker*	*A medical appliance used for regulating cardiac rhythms*	*Retired. Replaced by (A-11101, SRT, "Cardiac Pacemaker").*
111172	*Paddle*	*A compression device used for obtaining mammographic images*	*Retired. Replaced by (A-10042, SRT, "Compression paddle").*
111173	*Collimator*	*A device used for restricting an X-Ray beam*	*Retired. Replaced by (A-10044, SRT, "Collimator").*
111174	*ID Plate*	*An area designated on a radiographic film for facility and patient ID information*	*Retired. Replaced by (A-16016, SRT, "ID Plate").*
111175	Other Marker	Site specific markers.	
111176	Unspecified	The value of the concept is not specified	This term may not be used in Context Group Extensions; see Section 7.2.3
111177	View and Laterality Marker is missing	Image quality deficiency according to MQSA.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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	*Adenolipoma*	*A benign tumor having glandular characteristics but composed of fat, with the presence of normal mammary ducts*	*Retired. Replaced by (M-83240, SRT, "Adenolipoma").*
111249	*Ductal hyperplasia*		*Retired. Replaced by (M-72170, SRT, "Ductal hyperplasia, Usual").*
111250	*Adenomyoepithelioma*	*Neoplasms composed of myoepithelial cells*	*Retired. Replaced by (M-89830, SRT, "Adenomyoepithelioma").*
111251	Normal axillary node	Axillary node that is normal in appearance with no associated pathology.	

Code Value	Code Meaning	Definition	Notes
111252	Axillary node with calcifications	Axillary node containing calcifications.	
111253	Axillary node hyperplasia	Excessive proliferation of normal tissue arrangement of the axillary node.	
111254	*Asynchronous involution*		*Retired. Replaced by (F-8A063, SRT, "Asynchronous involution of breast").*
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	*Intracystic papilloma*	*Growing within a cystic adenoma, filling the cavity with a mass of branching epithelial processes*	*Retired. Replaced by (M-85040, SRT, "Intracystic papilloma").*
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	*Extra abdominal desmoid*	*A deep seated firm tumor frequently occurring on the chest consisting of collagenous tissue that infiltrates surround muscle; frequently recurs but does not metastasize*	*Retired. Replaced by (M-88211, SRT, "Extra abdominal desmoid").*
111262	*Epidermal inclusion cyst*	*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*	*Retired. Replaced by (M-33410, SRT, "Epidermal inclusion cyst").*
111263	Fibroadenomatoid hyperplasia	Excessive proliferation of fibroadenoma tissue.	
111264	Fibroadenolipoma	A lipoma with an abundant stroma of fibrous tissue.	
111265	*Foreign body (reaction)*		*Retired. Replaced by (M-44140, SRT, "Foreign body (reaction) ").*
111269	*Galactocele*	*Retention cyst caused by occlusion of a lactiferous duct*	*Retired. Replaced by (D7-90364, SRT, "Galactocele").*
111271	*Hemangioma - nonparenchymal, subcutaneous*	*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*	*Retired. Replaced by (D3-F0620, SRT, "Hemangioma of subcutaneous tissue").*
111273	*Hyperplasia, usual*		*Retired. Replaced by (M-72000, SRT, "Hyperplasia, usual").*
111277	Juvenile papillomatosis	A form of fibrocystic disease in young woman with florid and sclerosing adenosis that microscopically may suggest carcinoma.	
111278	*Lactating adenoma*	*Enlarging masses during lactation. A circumscribed benign tumor composed primarily of glandular structures with scanty stroma, with prominent secretory changes in the duct*	*Retired. Replaced by (M-82040, SRT, "Lactating adenoma").*
111279	Lactational change	Changes related to the process of lactation.	
111281	Large duct papilloma	A papilloma pertaining to large mammary duct.	

Code Value	Code Meaning	Definition	Notes
111283	*Myofibroblastoma*	*Solitary or multiple tumors of muscles and fibrous tissues, or tumors composed of myofibroblasts*	*Retired. Replaced by (M-88250, SRT, "Myofibroblastoma").*
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	*Neurofibromatosis*	*Condition in which there are tumors of various sizes on peripheral nerves. They may be neuromas or fibromas*	*Retired. Replaced by (M-95401, SRT, "Neurofibromatosis").*
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 aprocine metaplasia with or without cyst formation.	
111293	*Radial scar*	*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*	*Retired. Replaced by (M-78731, SRT, "Radial scar").*
111294	*Sclerosing adenosis*	*Prominent interductal fibrosis of the terminal ductules*	*Retired. Replaced by (M-74220, SRT, "Sclerosing adenosis").*
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	*Angiosarcoma*	*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*	*Retired. Replaced by (M-91203, SRT, "Angiosarcoma").*
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.	

Code Value	Code Meaning	Definition	Notes
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	*Carcinoma with metaplasia*		*Retired. Replaced by (M-85733, SRT, "Carcinoma with metaplasia").*
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	*Carcinosarcoma*	*A malignant neoplasm that contains elements of carcinoma and sarcoma, so extensively intermixed as to indicate neoplasia of epithelial and mesenchymal tissue*	*Retired. Replaced by (M-89803, SRT, "Carcinosarcoma").*
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	*Intraductal carcinoma micro-papillary*		*Retired. Replaced by (M-85072, SRT, "Intraductal carcinoma micro-papillary").*
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	*Invasive lobular carcinoma*		*Retired. Replaced by (M-85203, SRT, "Invasive lobular carcinoma").*
111318	Leukemic infiltration	Mammary infiltrates as a secondary manifestation in patients with established leukemia.	
111320	Lympathic vessel invasion	Histological changes to the lymphatic system related to an invasive process.	
111321	*Lymphoma*	*A heterogeneous group of neoplasms arising in the reticuloendoethelial and lymphatic systems*	*Retired. Replaced by (M-95903, SRT, "Lymphoma").*
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.	

Code Value	Code Meaning	Definition	Notes
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	*Malignant fibrous histiocytoma*		*Retired. Replaced by (M-88303, SRT, "Malignant fibrous histiocytoma").*
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	*Neoplasm of the mammary skin*		*Retired. Replaced by (D0-F035F, SRT, "Neoplasm of the mammary skin").*
111336	*Papillary carcinoma in-situ*		*Retired. Replaced by (M-80502, SRT, "Papillary carcinoma in-situ").*
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	*Invasive cribriform carcinoma*		*Retired. Replaced by (M-82013, SRT, "Invasive cribriform carcinoma").*
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 than0.5 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.	

Code Value	Code Meaning	Definition	Notes
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 themas 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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
111403	Baseline screening mammogram	First screening mammogram taken for patient that is used as a comparison baseline for further examinations.	

Code Value	Code Meaning	Definition	Notes
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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	*Microclip placed*	*An indicator of whether or not a radio opaque microclip was placed in the anatomy during an interventional procedure.*	*Retired. Replaced by (111123, DCM, "Marker placement")*
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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	*Medication History*	*Information regarding usage by the patient of certain medications, such as hormones.*	*Retired. Replaced by (10160-0, LN, "History Of Medication Use")*
111513	Relevant Previous Procedures	Interventional or non-interventional procedures previously performed on the patient, such as breast biopsies.	
111514	*Relevant Indicated Problems*	*Abnormal conditions experienced by the patient that serve as the reason for performing a procedure, such as a breast exam.*	*Retired. Replaced by (11450-4, LN, "Problem List")*
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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	*Pregnancy Status*	*Describes the pregnancy state of a referenced subject.*	*Retired. Replaced by (364320009, SCT, "Pregnancy observable").*
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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®.	

Code Value	Code Meaning	Definition	Notes
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	Notes
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	*Green filter*	*Filter that transmits green light while blocking the other colors, typically centered at 510-540 nm*	*Retired. Replaced by (A-010E2, SRT, "Green optical filter")*
111602	*Red filter*	*Filter that transmits red light while blocking the other colors, typically centered at 630-680 nm*	*Retired. Replaced by (A-010DF, SRT, "Red optical filter")*
111603	*Blue filter*	*Filter that transmits blue while blocking the other colors, typically centered at 460-480 nm*	*Retired. Replaced by (A-010DA, SRT, "Blue optical filter")*
111604	*Yellow-green filter*	*A filter of 560nm that is used for retinal imaging and can provide good contrast and good visibility of the retinal vasculature*	*Retired. Replaced by (A-010E0, SRT, "Yellow-green optical filter")*
111605	*Blue-green filter*	*A filter of 490nm that is used for retinal imaging because of excessive scattering of some retinal structures at very short wavelengths*	*Retired. Replaced by (A-010D8, SRT, "Blue-green optical filter")*
111606	*Infrared filter*	*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*	*Retired. Replaced by (A-010DC, SRT, "Infrared optical filter")*
111607	*Polarizing filter*	*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.*	*Retired. Replaced by (A-010E1, SRT, "Polarizing optical filter")*
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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 "Sheimpflug principle" where the lens and image planes are not parallel with each other. Rotating Sheimplug 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.	

Code Value	Code Meaning	Definition	Notes
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.	
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	Autorefraction 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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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	Notes
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.	

Code Value	Code Meaning	Definition	Notes
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).	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
111817	Visual Field SITA-Fast Test Strategy	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. 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.	

Code Value	Code Meaning	Definition	Notes
111818	Visual Field Full Threshold Test Strategy	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. 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.	
111819	Visual Field FastPac Test Strategy	Similar to the Full Threshold algorithm except that it steps by 3 dB and only crosses the threshold only once. 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.	
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	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%. 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.	
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%.	

Code Value	Code Meaning	Definition	Notes
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.	
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: Chiefer 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 hill by measuring the central (fovea) or peripheral (15° meridian) threshold. The result of each dot slightly underestimates the sensitivity value (within 5 dB).	

Code Value	Code Meaning	Definition	Notes
111838	Age corrected	Mode for determining the starting luminance for screening test points - the starting luminance s 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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	

Code Value	Code Meaning	Definition	Notes
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].	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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: *Practice Guidelines and Technical Standards*. 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.	

Code Value	Code Meaning	Definition	Notes
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.	
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].	

Code Value	Code Meaning	Definition	Notes
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 mm3.	
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].	

Code Value	Code Meaning	Definition	Notes
112070	Air bronchiologram	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 *Aspergillus*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].	
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].	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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].	

Code Value	Code Meaning	Definition	Notes
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].	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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].	

Code Value	Code Meaning	Definition	Notes
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	*Difference in border shape*	*A change in the shape formed by the boundary or edges of a finding or feature.*	*Retired. Replaced by (F-0517E, SRT, "Difference in border shape")*
112166	*Difference in border definition*	*A change in the clarity of the boundary or edges of a finding or feature.*	*Retired. Replaced by (F-05166, SRT, "Difference in border definition")*
112167	*Difference in distribution*	*A change in the extent of spreading of a finding or feature.*	*Retired. Replaced by (F-0516C, SRT, "Difference in distribution")*
112168	*Difference in site involvement*	*A change in the part(s) of the anatomy affected or encompassed by a finding or feature.*	*Retired. Replaced by (F-05170, SRT, "Difference in site involvement")*
112169	*Difference in Type of Content*	*A change in the matter or substance within a finding or feature.*	*Retired. Replaced by (F-05167, SRT, "Difference in substance")*

Code Value	Code Meaning	Definition	Notes
112170	*Difference in Texture*	*A change in the surface or consistency of a finding or feature.*	*Retired. Replaced by (F-0516A, SRT, "Difference in texture")*
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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).	

Code Value	Code Meaning	Definition	Notes
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.	
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: *Practice Guidelines and Technical Standards.*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: *Practice Guidelines and Technical Standards.*Reston, Va: American College of Radiology;2006:945-948.	

Code Value	Code Meaning	Definition	Notes
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.	
112308	Femoral Head Ball Component	Component for Femoral Head Prosthesis where the conic intake for the stem neck can be exchanged. Combined with a Femoral Head Cone Taper Component.	
112309	Femoral Head Cone Taper Component	Exchangeable neck intake for composite femoral head prosthesis. Combined with a Femoral Head Ball Component.	

Code Value	Code Meaning	Definition	Notes
112310	Femoral Stem	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.	
112311	Femoral Stem Distal Component	Distal half of a modular stem prosthesis system. Combined with a Stem Proximal Component.	
112312	Femoral Stem Proximal Component	Proximal half of a modular stem prosthesis system. Combined with a Stem Distal Component.	
112313	Femoral Stem Component	Stem prosthetic component with a modular insert for an exchangeable neck component. Combined with a Neck Component.	
112314	Neck Component	Prosthetic Neck to be combined with a Stem Component.	

Code Value	Code Meaning	Definition	Notes
112315	Monoblock Stem	Prosthetic Stem and Femoral Head in one piece.	
112316	Prosthetic Shaft Augment	A proximal attachment to the shaft used to compensate for bone deficiencies or bone loss.	
112317	Femoral Head Resurfacing Component	Artificial femur head surface needed for the partial replacement of the femoral head where only the surface is replaced.	
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.	
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 [Eggli et. al.1998].	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	

Code Value	Code Meaning	Definition	Notes
112717	20X	Nominal 20 power microscope objective lens, resulting in a digital image at approximately 0.5 um/pixel spacing.	
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]	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
113040	Lossy Compression	Lossy compression has been applied to an image.	
113041	Apparent Diffusion Coefficient	Values are derived by calculation of the apparent diffusion coefficient.	
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.	
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	Values are derived by calculating T1 values.	
113064	T2*	Values are derived by calculating T2* values.	
113065	T2	Values are derived by calculating T2 values.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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	Magnetization Transfer Ratio (MTR) is the ratio of magnetization transfer, Mo - Ms/Mo, where Ms represents the magnitude of signal of tissues with the saturation pulse used to saturate macromolecular protons on, and Mo is the magnitude of signal without saturation. 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	
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.	

Code Value	Code Meaning	Definition	Notes
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	Notes
113201	Trace	Sum of the diffusion tensor eigenvalues. I.e.: Tr = λ1+ λ2+ λ3, where λ1 ≥ λ2 ≥ λ3. 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. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3533595/)	
113202	Mean Diffusivity	Average of the diffusion tensor eigenvalues in all directions. I.e.: MD = (λ1+ λ2+ λ3) /3 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. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3533595/)	
113203	Radial Diffusivity	Average of the two non-principal (i.e. perpendicular) diffusion tensor eigenvalues(also known as transverse diffusivity, perpendicular diffusivity). I.e.: DR= (λ2+ λ3) /2 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. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3533595/)	
113204	Axial Diffusivity	Diffusion tensor eigenvalue of the principal axis (also known as longitudinal diffusivity, parallel diffusivity). I.e.: DA = λ1 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. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3533595/)	

Code Value	Code Meaning	Definition	Notes
113205	Mean Kurtosis	MK = diffusional kurtosis averaged over all gradient directions Reference: Tabesh A, Jensen JH, Ardekani BA, Helpern 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/) Reference: Liu C, Mang SC, Moseley ME. In VivoGeneralized 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/)	
113206	Apparent Kurtosis Coefficient	AKC = diffusional kurtosis in a given direction Reference: Liu C, Mang SC, Moseley ME. In VivoGeneralized 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/)	
113207	Radial Kurtosis	KR = diffusional kurtosis perpendicular to the direction of the highest diffusion (also known as transverse kurtosis, perpendicular kurtosis) Reference: Tabesh A, Jensen JH, Ardekani BA, Helpern 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/)	
113208	Axial Kurtosis	KA = diffusional kurtosis in the direction of the highest diffusion (also known as longitudinal kurtosis, parallel kurtosis) Reference: Tabesh A, Jensen JH, Ardekani BA, Helpern 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/)	
113209	Fractional Kurtosis Anisotropy	FKA = fractional kurtosis of diffusion in tissues Reference: Liu C, Mang SC, Moseley ME. In VivoGeneralized 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/)	

Code Value	Code Meaning	Definition	Notes
113211	Deterministic Tracking Algorithm	Tracking based on local directionality 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)	
113212	Probabilistic Tracking Algorithm	Tracking using local fiber orientation likelihood derive global connectivity likelihood 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)	
113213	Global Tracking Algorithm	Tracking allfibers simultaneously, searching for a global optimum. 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)	
113214	FACT	Fiber Assessment by Continuous Tracking 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) 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)	
113215	Streamline	Streamline tracking techniques (STT) 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)	
113216	TEND	Tensor Deflection 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)	

Code Value	Code Meaning	Definition	Notes
113217	Bootstrap Tracking Algorithm	Non-parametric estimation of fiber tracking dispersion 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) 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)	
113218	Euler	Integration method, 1st order 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) 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)	
113219	Runge-Kutta	Integration method, 2nd or 4th order 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)	
113221	HARDI	High Angular Resolution Diffusion Imaging 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) 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)	
113222	DKI	Diffusion(al) Kurtosis Imaging Reference: Jensen JH, Helpern 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)	

Code Value	Code Meaning	Definition	Notes
113223	DTI	Diffusion Tensor Imaging 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. (http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3533595/)	
113224	DSI	Diffusion Spectrum Imaging 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. (http://www.ncbi.nlm.nih.gov/pubmed/18495497) 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)	
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)	

Code Value	Code Meaning	Definition	Notes
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. (http://www.ncbi.nlm.nih.gov/pubmed/18524529)	
113233	Model Free	Reconstruction of anisotropic diffusion in a volume without imposing an underlying statistical model (data-driven approach) 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) 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)	

Code Value	Code Meaning	Definition	Notes
113234	CHARMED	Composite Hindered and Restricted Model of Diffusion 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)	
113236	DOT	Diffusion Orientation Transform 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)	
113237	PAS	Persistent Angular Structure 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)	
113238	Spherical Deconvolution	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. 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)	
113500	Radiopharmaceutical Radiation Dose Report	The procedure report is a Radiopharmaceutical Radiation Dose report	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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]	

Code Value	Code Meaning	Definition	Notes
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	
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	Cockroft-Gault Formula estimation of GFR	The measurement method of the Glomerular Filtration Rate is Cockroft-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)	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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*	*Retired. Replaced by (C-1190E, SRT, "Niobium or Niobium compound")*

Code Value	Code Meaning	Definition	Notes
113711	*Europium or Europium compound*	*Material containing Europium or a Europium compound*	*Retired. Replaced by (C-1190F, SRT, "Europium or Europium compound")*
113720	Calibration Protocol	Describes the method used to derive the calibration factor.	
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 Date	Last calibration Date 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	*Exposure Time*	*Cumulative time the patient has received X-Ray exposure during the irradiation event*	*Retired. Replaced by (113824, DCM, "Exposure Time").*
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") .	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
113801	CTDIfreeair to E conversion via MC computation	Effective Dose evaluation from the product of the Mean CTDIfreeair and the ratio E/CTDIfreeair (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	CTDIfreeair to E conversion via measurement	Effective Dose evaluation from the product of the Mean CTDIfreeair and the ratio E/CTDIfreeair (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.	

Code Value	Code Meaning	Definition	Notes
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/CTDIfreeair.	
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	Notes
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 CTDIvol	"Mean CTDIvol" refers to the average value of the CTDIvol 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	CTDIfreeair Calculation Factor	The CTDIfreeair Calculation Factor is the CTDIfreeair per mAs, expressed in units of mGy/mAs. The CTDIfreeair Calculation Factor may be used in one method calculating Dose.	
113837	Mean CTDIfreeair	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 CTDIvol and the length scanned. For Spiral scanning, DLP = CTDIvol × Scanning Length. For Sequenced scanning, DLP = CTDIvol × Nominal Total Collimation Width × Cumulative Exposure Time / Exposure Time per Rotation. For Stationary and Free scanning, DLP = CTDIvol × 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.	

Code Value	Code Meaning	Definition	Notes
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.	
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) (7).	

Code Value	Code Meaning	Definition	Notes
113862	1cm above Tabletop	1cm above the patient tabletop or cradle; See FDA Federal Performance Standard for Diagnostic X-Ray Systems §1020.32(d) (7).	
113863	30cm above Tabletop	30cm above the patient tabletop of cradle; See FDA Federal Performance Standard for Diagnostic X-Ray Systems §1020.32(d) (7).	
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) (7).	
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.	
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.	

Code Value	Code Meaning	Definition	Notes
113893	Length of Reconstructable Volume	The length from which images may be reconstructed (i.e., excluding any overranging performed in a spiral acquisition that is required for data interpolation). Value is distinct from (1113825, 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.	
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	The range along the z axis of the total volume irradiated, per IEC 60601-2-44, Ed. 3, 203.115(b). 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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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	*Radioactive Substance Administered*	*Type, amount and route of radioactive substance administered.*	*Retired. Replaced by (440252007, SCT, "Administration of radiopharmaceutical").*
113923	*Radiation Exposure and Protection Information*	*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.*	*Retired. Replaced by (73569-6, LN, "Radiation Exposure and Protection Information")*
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 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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
121035	Subject Breed	The breed of the subject.	
121036	Mother of fetus	Name of mother of fetus that is the subject of observations.	
121037	*Fetus number*		*Retired. Replaced by (11951-1, LN, "Fetus ID").*
121038	*Number of Fetuses*		*Retired. Replaced by (55281-0, LN, "Number of Fetuses").*
121039	Specimen UID	Unique Identifier of specimen that is the subject of observations.	
121040	*Specimen Accession Number*	*Accession Number of specimen that is the subject of observations*	*Retired.*
121041	Specimen Identifier	Identifier of specimen that is the subject of observations.	
121042	*Specimen Type*	*Coded category of specimen that is the subject of observations*	*Retired. Replaced by (R-00254, SRT, "Specimen Type")*
121043	*Slide Identifier*	*Identifier of specimen microscope slide that is the subject of observations*	*Retired. Replaced by (111700, DCM, "Specimen Container Identifier")*
121044	*Slide UID*	*Unique Identifier of specimen microscope slide that is the subject of observations*	*Retired.*
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 Candadian 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.	

Code Value	Code Meaning	Definition	Notes
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	*Present*		*Retired. Replaced by (G-A203, SRT, "Present")*
121054	*Absent*		*Retired. Replaced by (R-4089B, SRT, "Absent")*
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	*Presence Undetermined*	*Presence or absence of a property is undetermined*	*Retired. Replaced by (R-4089B, SRT, "Undetermined")*
121060	*History*		*Retired. Replaced by (11329-0, LN, "History")*
121062	*Request*		*Retired. Replaced by (55115-0, LN, "Request")*
121064	*Current Procedure Descriptions*		*Retired. Replaced by (55111-9, LN, "Current Procedure Descriptions")*
121065	Procedure Description	A description of the imaging procedure.	
121066	*Prior Procedure Descriptions*		*Retired. Replaced by (55114-3, LN, "Prior Procedure Descriptions")*
121068	*Previous Findings*		*Retired. Replaced by (18834-2, LN, "Previous Findings")*
121069	Previous Finding	An observation found on a prior imaging study.	
121070	*Findings*		*Retired. Replaced by (59776-5, LN, "Findings")*
121071	Finding	An observation found on an imaging study.	
121072	*Impressions*		*Retired. Replaced by (19005-8, LN, "Impressions")*

Code Value	Code Meaning	Definition	Notes
121073	Impression	An interpretation in the clinical context of the finding(s) on an imaging study.	
121074	*Recommendations*		*Retired. Replaced by (18783-1, LN, "Recommendations")*
121075	Recommendation	A recommendation for management or investigation based on the findings and impressions of an imaging study.	
121076	*Conclusions*		*Retired. Replaced by (55110-1, LN, "Conclusions")*
121077	Conclusion	An interpretation in the clinical context of the finding(s) on an imaging study.	
121078	*Addendum*		*Retired. Replaced by (55107-7, LN, "Addendum")*
121079	Baseline	Initial images used to ~~esyablish~~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	*Physician*		*Retired. Replaced by (J-004E8, SRT, "Physician")*
121082	*Nurse*		*Retired. Replaced by (J-07100, SRT, "Nurse")*
121083	*Technologist*		*Retired. Replaced by (J-00187, SRT, "Radiologic Technologist")*
121084	*Radiographer*		*Retired. Replaced by (J-00187, SRT, "Radiographer")*
121085	*Intern*		*Retired. Replaced by (C1144859, UMLS, "Intern")*
121086	*Resident*		*Retired. Replaced by (J-005E6, SRT, "Resident")*
121087	*Registrar*		*Retired. Replaced by (J-00172, SRT, "Registrar")*
121088	Fellow	A medical practitioner undergoing sub-specialty training. E.g., during the period after specialty training (residency).	

Code Value	Code Meaning	Definition	Notes
121089	*Attending [Consultant]*		*Retired. Replaced by (J-005E8, SRT, "Attending")*
121090	*Scrub nurse*		*Retired. Replaced by (J-0714A, SRT, "Scrub nurse")*
121091	*Surgeon*		*Retired. Replaced by (J-00556, SRT, "Surgeon")*
121092	Sonologist	A medical practitioner with sub-specialty training in Ultrasound.	
121093	*Sonographer*		*Retired. Replaced by (C1954848, UMLS, "Sonographer")*
121094	Performing	The person responsible for performing the procedure.	
121095	*Referring*	*The person responsible for referring the patient for the procedure.*	*Retired. Replaced by (C1709880, UMLS, "Referring physician").*
121096	Requesting	The person responsible for requesting the procedure.	
121097	Recording	The person responsible for recording the procedure or observation.	
121098	Verifying	The person responsible for verifying the recorded procedure or observation.	
121099	Assisting	The person responsible for assisting with the procedure.	
121100	*Circulating*	*The person responsible for making preparations for and monitoring the procedure.*	*Retired. Replaced by (J-0714B, SRT, "Circulating Nurse").*
121101	Standby	The person responsible for standing by to assist with the precedure if required.	
121102	Other sex	Other sex.	
121103	Undetermined sex	Sex of subject undetermined at time of encoding.	
121104	Ambiguous sex	Ambiguous sex.	
121105	*Radiation Physicist*	*Radiation Physicist.*	*Retired. Replaced by (C2985483, UMLS, "Radiation Physicist").*
121106	Comment	Comment.	
121109	*Indications for Procedure*	*Indications for Procedure*	*Retired. Replaced by (18785-6, LN, "Indications for Procedure")*
121110	*Patient Presentation*	*Patient condition at the beginning of a healthcare encounter*	*Retired. Replaced by (55108-5, LN, "Patient Presentation")*
121111	*Summary*	*Summary of a procedure, including most significant findings*	*Retired. Replaced by (55112-7, LN, "Summary")*
121112	Source of Measurement	Image or waveform used as source for measurement.	
121113	*Complications*	*Complications from a procedure*	*Retired. Replaced by (55109-3, LN, "Complications")*
121114	Performing Physician	Physician who performed a procedure.	

Code Value	Code Meaning	Definition	Notes
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.	

Code Value	Code Meaning	Definition	Notes
121151	Lesion Identifier	Identification of a Lesion observed during an imaging procedure.	
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	*Key Images*	*List of references to images considered significant*	*Retired. Replaced by (55113-5, LN, "Key Images")*
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.	

Code Value	Code Meaning	Definition	Notes
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	*Area Outline*		*Retired. Replaced by (121056, DCM, "Area Outline") .*
121202	*Area of Defined Region*		*Retired. Replaced by (G-A16A, SRT, "Area of defined region").*
121206	Distance	A one dimensional, or linear, numeric measurement.	
121207	Height	Vertical measurement value.	
121208	Inter-Marker Distance	Distance between marks on a device of calibrated size. E.g., a ruler.	
121210	*Path*		*Retired. Replaced by (121055, DCM, "Path") .*
121211	Path length	A one dimensional, or linear, numeric measurement along a polyline.	
121213	*Perimeter Outline*		*Retired. Replaced by (121057, DCM, "Perimeter Outline").*
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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 and 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.	
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.	
121383	Mass administered	Mass of substance administered to a patient.	

Code Value	Code Meaning	Definition	Notes
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	*Estimated*	*Measurement obtained by observer estimation, rather than with a measurement tool or by calculation*	*Retired. Replaced by (R-10260, SRT, "Estimated")*

Code Value	Code Meaning	Definition	Notes
121428	*Calculated*	*Measurement obtained by calculation*	*Retired. Replaced by (R-41D2D, SRT, "Calculated")*
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.	
121437	*Pharmacologic and exercise stress test*	*Cardiac stress test using pharmacologic and exercise stressors*	*Retired. Replaced by (P2-31011, SRT, "Pharmacologic and exercise stress test")*
121438	*Paced stress test*	*Cardiac stress test using an implanted or external cardiac pacing device*	*Retired. Replaced by (P2-3110B, SRT, "Stress test using cardiac pacing")*
121439	*Correction of congenital cardiovascular deformity*	*Procedure for correction of congenital cardiovascular deformity*	*Retired.* *Replaced by (P1-080B4, SRT, "Correction of congenital cardiovascular deformity")*
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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	*Equipment failure*	*Equipment failure*	*Retired. Replaced by (110501, DCM, "Equipment failure")*
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.	
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*	*Retired. Replaced by (P2-3120E, SRT, "15-Lead 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.	

Code Value	Code Meaning	Definition	Notes
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.	
122106	Duration of Intervention	Duration of Intervention.	
122107	*Baseline Stenosis Measurement*	*Lesion stenosis measured prior to any interventional procedure*	*Retired. Replaced by (R-101BB, SRT, "Lumen Diameter Stenosis"), post-coordinated with (G-7293, SRT, "Baseline Phase")*
122108	*Post-Intervention Stenosis Measurement*	*Lesion stenosis measured after an interventional procedure*	*Retired. Replaced by (R-101BB, SRT, "Lumen Diameter Stenosis"), post-coordinated with (G-7298, SRT, "Post-intervention Phase")*

Code Value	Code Meaning	Definition	Notes
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	Sacrred Myocardial	Sacrred 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.	
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.	

Code Value	Code Meaning	Definition	Notes
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	Date of Death	Date 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 > = 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.	

Code Value	Code Meaning	Definition	Notes
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).	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
122231	Comparative Average10 Year CHD Risk	Framingham Study Comparative Average10 Year CHD Risk.	
122232	Comparative Low10 Year CHD Risk	Framingham Study Comparative Low10 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*WT^(0.7285-0.0188 log (WT)) *HT^0.3	Body Surface Area computed from patient height and weight: BSA = 3.207*WT[g]^(0.7285-0.0188 log (WT[g])) *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*WT^ 0.425*HT^0.725	Body Surface Area computed from patient height and weight: BSA = 0.007184* WT[kg] ^ 0.425*HT[cm] ^ 0.725 [Dubois and Dubois, Arch Int Med 1916 17:863-71].	
122242	BSA = 0.0235*WT^0.51456*HT^ 0.42246	Body Surface Area computed from patient height and weight: BSA = 0.0235* WT[kg] ^0.51456*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*WT^0.5378*HT^0.3964	Body Surface Area computed from patient height and weight: BSA = 0.024265 * WT[kg] ^ 0.5378 * 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].	

Code Value	Code Meaning	Definition	Notes
122244	BSA = (HT * WT/36) ^0.5	Body Surface Area computed from patient height and weight: BSA = (HT[m] * 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*WT	Body Surface Area computed from patient weight:BSA = 1321 + 0.3433 * WT[kg] (for pediatrics 3-30 kg) [Current, J.D. 'A Linear Equation For Estimating The Body Surface Area In Infants And Children', *The Internet Journal of Anesthesiology*. 1998. 2:2].	
122246	BSA = 0.0004688 * WT ^ (0.8168 - 0.0154 * log(WT))	BSA = 0.0004688 * (1000 * WT) ^ (0.8168 - 0.0154 * log(1000 * WT)) Where (WT is weight in kilogram) Units = m2 Boyd, Edith. *The Growth of the Surface Area of the Human Body*(originally published in 1935 by the University of Minnesota Press), Greenwood Press, Westport, Connecticut, 1975, p. 102.Equation (35).	
122247	VO2male = BSA (138.1 - 11.49 * loge(age) + 0.378 * HRf)	Equation for estimated oxygen consumption: VO2male = BSA (138.1 - 11.49 * loge(age) + 0.378 * HRf).	
122248	VO2female = BSA (138.1 - 17.04 * loge(age) + 0.378 * HRf)	Equation for estimated oxygen consumption: VO2female = BSA (138.1 - 17.04 * loge(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.	

Code Value	Code Meaning	Definition	Notes
122262	Area = Flow / 44.5 * sqrt(Gradient[mmHg])	Cardiac valve area computed from flow and pressure gradient: Area = Flow / 44.5 * sqrt(Gradient[mmHg]) [Gorlin and Gorlin, Am Heart J, 1951].	
122263	MVA = Flow / 38.0 * sqrt(Gradient[mmHg])	Mitral valve area computed from flow and pressure gradient: Mitral valve Area = Flow / 38.0 * sqrt(Gradient[mmHg]) [Gorlin and Gorlin, Am Heart J, 1951].	
122265	BMI = Wt / Ht ^ 2	Body Mass Index computed from weight and height: BMI = Wt/Ht^2.	
122266	BSA = 0.007358 * WT ^ 0.425 * HT ^ 0.725	Body Surface Area computed from patient height and weight: BSA = 0.007358 * WT[kg] ^ 0.425 * HT[cm] ^ 0.725 (for East Asian adult, aged 15+ years) [Kanai Izumi, Masamitsu Kanai, 'Clinical examination method summary'].	
122267	BSA = 0.010265 * WT ^ 0.423 * HT ^ 0.651	Body Surface Area computed from patient height and weight: BSA = 0.010265 * WT[kg] ^ 0.423 * HT[cm] ^ 0.651 (For East Asian child aged 12-14 years).	
122268	BSA = 0.008883 * WT ^ 0.444 * HT ^ 0.663	Body Surface Area computed from patient height and weight: BSA = 0.008883* WT[kg] ^ 0.444 * HT[cm] ^ 0.663 (For East Asian child aged 6-11 years).	
122269	BSA = 0.038189 * WT ^ 0.423 * HT ^ 0.362	Body Surface Area computed from patient height and weight: BSA = 0.038189 * WT[kg] ^ 0.423 * HT[cm] ^ 0.362 (For East Asian child aged 1-5 years).	
122270	BSA = 0.009568 * WT ^ 0.473 * HT ^ 0.655	Body Surface Area computed from patient height and weight: BSA = 0.009568* WT[kg] ^ 0.473 * HT[cm] ^ 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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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(Vessel lumen cross-sectional area / p) / 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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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	Notes
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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).	

Code Value	Code Meaning	Definition	Notes
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].	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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 Time	Imaging Start Time.	
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" *Heart*7:353-370 (1920).	
122731	Hodges QTc Algorithm	Hodges QT Correction Algorithm; QT + 1.75 (heart rate-60); Hodges M, Salerno Q, Erlien D. "Bazett's QT correction reviewed. Evidence that a linear QT correction for heart rate is better." *J Am Coll Cardiol*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" *Acta Med Scand*53:469-486 (1920).	
122733	Framingham QTc Algorithm	Framingham QT Correction Algorithm; QT + 0.154 (1-RR); Sagie A, Larson MG, Goldberg RJ, *et al*. "An improved method for adjusting the QT interval for heart rate (the Framingham Heart Study)." *Am J Cardiol*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.	

Code Value	Code Meaning	Definition	Notes
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).	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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	*Radiopharmaceutical*	*Active ingredient (molecular) used for radioactive tracing.*	*Retired.* *Replaced by (F-61FDB, SRT, "Radiopharmaceutical agent").*
123003	Radiopharmaceutical Start Time	Time of radiopharmaceutical administration to the patient for imaging purposes.	
123004	Radiopharmaceutical Stop Time	Ending time 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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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., background of an image (that which might be encoded with Pixel Padding Value, or a Segmentation Property 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 plague 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.	

Code Value	Code Meaning	Definition	Notes
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 = $[pL_1 / 6] * [(4A_1) \text{ ¸ } (pL_1)] * [(4A_2) \text{ ¸ } (pL_2)]$.	
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 = $[8(A)^2]$¸$[3pL]$.	
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 = $[7.0/(2.4+D)]*D^3$.	
125210	Area by Pressure Half-Time	Mitral valve area (cm2) by Pressure Half-time = 220 (cm2.ms) / PHT (ms).	
125211	Biplane Ellipse	Area = P/4 X d1 X d2 d1 = anterior/posterior axis d2 = medial/lateral axis *Hagen-Ansert, Sandra L., Textbook of Diagnostic Ultrasound, ed. 3, The C.V.Mosby Co., 1989, p. 73.* .	
125212	Continuity Equation	For conduits in series ("in continuity"), volume flow is equal: A1*V1 = A2*V2. where V is the velocity.	
125213	Continuity Equation by Mean Velocity	For conduits in series ("in continuity"), volume flow is equal: A1*V1 = A2*V2. where V is the mean velocity.	
125214	Continuity Equation by Peak Velocity	For conduits in series ("in continuity"), volume flow is equal: A1*V1 = A2*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*V1 = A2*V2. where V is the velocity time integral.	

Code Value	Code Meaning	Definition	Notes
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 = $(2\pi r^2 v_{av}) * (\alpha\pi)$ 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	$\Delta P = 4*(V1^2 - V2^2)$.	
125218	Simplified Bernoulli	$\Delta P = 4*V2$.	
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 = $1.04 * [(ST+LVID+PWT)^3 - LVID^3] * 0.8+ 0.6$. Mass unit is grams and length in cm.	
125222	Left Ventricle Mass by Truncated Ellipse	Mass = $1.05P ((b + t)^2 X (2/3 (a + t) + d - d^3 /3(a + t)^2) - b^2 (2/3a + d - d^3 /3a^2))$ 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. *Schiller NB et al: Recommendations for quantification of the left ventricle by two-dimensional echocardiography, American Society of Echocardiography 2:364, 1989.* .	
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. *Recommendations for Quantitation of the Left Ventricle by Two-Dimensional Echocardiography*, 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. *Recommendations for Quantitation of the Left Ventricle by Two-Dimensional Echocardiography*, Journal of the American Society of Echocardiography, 2:358-367, 1989.	

Code Value	Code Meaning	Definition	Notes
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. *Recommendations for Quantitation of the Left Ventricle by Two-Dimensional Echocardiography*, 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	Modified Simpson's Method of estimating ventricular volume, based on the method of disks with paired apical views. 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". *J Am Soc Echocardiogr.*1989 2(5):358-367. Sep-Oct.	
125228	Bullet Method	Bullet method of estimating ventricular volume. Volume = 5/6 * L * S L: Left ventricle long axis length S: Left ventricle area, SAX view at level of Mitral Valve.	
125230	*Power Doppler*	*Color coded ultrasound images of blood flow, which depict the amplitude, or power, of Doppler signals.*	*Retired* *Replaced by (P0-02241, SRT, "Power Doppler")*
125231	*3D mode*	*Volumetric ultrasound imaging*	*Retired* *Replaced by (P0-02242, SRT, "3D mode")*
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.	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
125270	Left Ventricle Mass by Area Length	method to measure the mass of the Left Ventricle via the ASE area-length method at end diastole. LV Mass = 1.05*(5/6*(A1*(L+t)) - 5/6*(A2*L)) A1 = Left Ventricle epicardial SAX area at the level of the papillary muscle tips at end diastole. A2 = Left Ventricle endocardial SAX area cavity area at the level of the papillary muscle tips at end diastole. L = Left Ventricle apical view long axis length at end diastole. t = Myocardial thickness can be computed as: t = sqrt (A1/3.14) - sqrt (A2/3.14) Reference: 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. 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.	

Code Value	Code Meaning	Definition	Notes
125271	Left Ventricle Mass by M-mode - adjusted by Height	Equation = Left Ventricle Mass by M-mode (in gram) / (Height (in meter)) ^2.7 Reference: 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.	
125272	Left Ventricle Mass by Truncated Ellipse - adjusted by Height	Equation = Left Ventricle Mass by Truncated Ellipse / Height^2.7 Reference: 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.	
125273	Left Ventricle Mass by Area Length - adjusted by Height	Equation = Left Ventricle Mass by Area Length / Height^2.7 Reference: 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.	
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.	

Code Value	Code Meaning	Definition	Notes
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. ~~Reference Wahl et al PERCIST article.~~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. Synonymnous with "Tumor Lesion Glycolysis".	
126034	Glycolysis	The amount glycolytic activity summed across all voxels in a defined region or within a defined range of SUV (on FDG-PET).	

Code Value	Code Meaning	Definition	Notes
126035	Total Lesion Proliferation	The total activity of a lesion obtained as the product of its volume and its proliferative activity (on FLT-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 cellular proliferation. Abbreviated TLP. Synonymnous with "Tumor Lesion Proliferation".	
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)	A background-corrected, partial volume independent version of TLG. 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. 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.	
126038	Standardized Added Metabolic Activity (SAM) Background	The background value (VOI2-VOI1) used to calculate Standardized Added Metabolic Activity (SAM). 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. 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.	
126039	Lesion to Background SUV Ratio	The ratio of the SUV within a tumor to the SUV of a pre-defined background region. ~~Need reference(s).~~ A more general concept than Tumor to Background Ratio (TBR).	
126040	Background for Lesion to Background SUV Ratio	The SUV of a pre-defined background region used to compute Lesion to Background SUV Ratio. ~~Need reference(s).~~	
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.	

Code Value	Code Meaning	Definition	Notes
126052	Kurtosis	Measure of the peakedness of the probability distribution of a real-valued random variable.	
126060	Entropy of GLCM	The zero order entropy of a Gray Level Co-occurrence Matrix (GLCM). A measure of disorder. See http://www.fp.ucalgary.ca/mhallbey/equations.htm.	
126061	Energy of GLCM	The energy (uniformity) (square root of the Angular Second Moment (ASM)) of a Gray Level Co-occurrence Matrix (GLCM). A measure of orderliness. See http://www.fp.ucalgary.ca/mhallbey/equations.htm.	
126062	Homogeneity of GLCM	The Inverse Difference Moment of a Gray Level Co-occurrence Matrix (GLCM). See http://www.fp.ucalgary.ca/mhallbey/equations.htm.	
126063	Contrast of GLCM	The sum of squares variance of a Gray Level Co-occurrence Matrix (GLCM). See http://www.fp.ucalgary.ca/mhallbey/equations.htm.	
126064	Dissimilarity of GLCM	The dissimilarity of a Gray Level Co-occurrence Matrix (GLCM). See http://www.fp.ucalgary.ca/mhallbey/equations.htm.	
126065	ASM of GLCM	The Angular Second Moment of a Gray Level Co-occurrence Matrix (GLCM). See http://www.fp.ucalgary.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.ucalgary.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.ucalgary.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.	

Code Value	Code Meaning	Definition	Notes
126075	Eligibility	For the purpose of determining eligibility for a protocol.	Similar but not identical to (21954-3, LN, "Protocol eligibility status Cancer"), since not constrained to cancer, etc.
126080	RECIST 1.0	Response Evaluation Criteria in Solid Tumors version 1.0. See [RECIST] in Normative References.	More specific than (112022, DCM, "RECIST") or (C1709926, UMLS, "RECIST") or ~~(~~(C49164, NCIt, "RECIST")~~C49164, NCIt, "RECIST")~~ in that a specific version is specified.
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..	More specific than (112022, DCM, "RECIST") or (C1709926, UMLS, "RECIST") or ~~(~~(C49164, NCIt, "RECIST")~~C49164, NCIt, "RECIST")~~ in that a specific version is specified.
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	
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	

Code Value	Code Meaning	Definition	Notes
126312	Ktrans	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) 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.	
126313	kep	k_{ep}, the rate constant between extravascular extracellular space (EES) and blood plasma 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.	
126314	ve	v_e, the fractional (not absolute) volume of extravascular extracellular space (EES) 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.	
126320	IAUC	The ~~intial~~initial area under the contrast agent concentration–time curve	
126321	IAUC60	The ~~intial~~initial area under the contrast agent concentration–time curve at 60 seconds after the onset time	
126322	IAUC90	The ~~intial~~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	Notes
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.	
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 quantitification	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)	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.	
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.	
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").	

Code Value	Code Meaning	Definition	Notes
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.	
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	
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	
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	
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	
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.	

Code Value	Code Meaning	Definition	Notes
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.	
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 (R1, 1/T1), normalized to the concentration of the contrast agent. Also referred to as r1. 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 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.” Magnetic Resonance in Medicine 57, no. 1 (2007): 115–26.	
126393	R1	The longitiudinal relaxation rate constant. The inverse of longitudinal relaxation time, i.e., R1 = 1/T1.	
126394	R2	The transverse relaxation rate constant. The inverse of transverse relaxation time, i.e., R2 = 1/T2.	
126400	Standardized Uptake Value	A ratio of locally measured radioactivity concentration versus the injected radioactivity ~~distibuted~~distributed evenly throughout the whole body. 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.	
126401	SUVbw	Standardized Uptake Value calculated using body weight. The patient size correction factor for males and females is body weight. Defined in Sugawara et al. *Reevaluation 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	

Code Value	Code Meaning	Definition	Notes
126402	SUVlbm	Standardized Uptake Value calculated using lean body mass. The patient size correction factor for males is 1.10 * weight - 120 * (weight/height) ^2, and for females is 1.07 * weight - 148 * (weight/height) ^2. Defined in Sugawara et al. *Reevaluation 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	
126403	SUVbsa	Standardized Uptake Value calculated using body surface area. The patient size correction factor for males and females is weight^ 0.425 * height^0.725 * 0.007184. Defined in Sugawara et al. *Reevaluation 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	
126404	SUVibw	Standardized Uptake Value calculated using ideal body weight. The patient size correction factor for males is 48.0 + 1.06 * (height - 152) and for females is 45.5 + 0.91 * (height - 152). Defined in Sugawara et al. *Reevaluation 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	
126410	SUV body weight calculation method	Method of calculating Standardized Uptake Value using body weight. The patient size correction factor for males and females is body weight. Defined in Sugawara et al. *Reevaluation 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	
126411	SUV lean body mass calculation method	Method of calculating Standardized Uptake Value using lean body mass. The patient size correction factor for males is 1.10 * weight - 120 * (weight/height) ^2, and for females is 1.07 * weight - 148 * (weight/height) ^2. Defined in Sugawara et al. *Reevaluation 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	
126412	SUV body surface area calculation method	Method of calculating Standardized Uptake Value using body surface area. The patient size correction factor for males and females is weight^ 0.425 * height^0.725 * 0.007184. Defined in Sugawara et al. *Reevaluation 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	

Code Value	Code Meaning	Definition	Notes
126413	SUV ideal body weight calculation method	Method of calculating Standardized Uptake Value using ideal body weight. The patient size correction factor for males is 48.0 + 1.06 * (height - 152) and for females is 45.5 + 0.91 * (height - 152). Defined in Sugawara et al. *Reevaluation 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	
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 α4β2 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.	
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.	

Code Value	Code Meaning	Definition	Notes
126710	Glutamine C^14^	A C 14 Glutamine PET radiotracer.	
126711	Glutamine F^18^	An F 18 Glutamine PET radiotracer.	
126712	Flubatine F^18^	An F 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.	
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.	

Code Value	Code Meaning	Definition	Notes
126753	Nanocolloidal albumin ^89^Zr	A Zr 89 nanocolloidal albumin PET Radiotracer. See Heuveling et al. Pilot Study on the Feasibility of PET/CT Lymphoscintigraphy with ^{89}Zr-Nanocolloidal Albumin for Sentinel Node Identification in Oral Cancer Patients. J Nucl Med. 2013 Apr;54(4):585-9. doi:10.2967/jnumed.112.115188. http://jnm.snmjournals.org/content/54/4/585.long	
126754	Anti-B220 ^89^Zr	A Zr 89 Anti-B220 PET Radiotracer.	
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 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 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 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 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].	

Code Value	Code Meaning	Definition	Notes
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	
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.	

Code Value	Code Meaning	Definition	Notes
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/laban0511-155 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).	
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).	

Code Value	Code Meaning	Definition	Notes
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.	
127197	Shelter product name	The manufacturer's product name of the small animal shelter.	

Code Value	Code Meaning	Definition	Notes
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.	

Code Value	Code Meaning	Definition	Notes
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).	
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).	

Code Value	Code Meaning	Definition	Notes
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.	
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.	
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.	

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		G-A231	Acute	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 cororaire par la méthode d'Agatston
DCM		112143	Air	Air
DCM		112070	Air bronchiologram	Bronchiologramme 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 graisseux
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		G-A105	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 intracanalaire 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	Lympphome 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, NOS	Sein, SAI
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	Circonscrit
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-10044	Collimator	Collimateur
SRT		M-85012	Comedocarcinoma (intraductal)	Carcinome intracanalaire 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, SAI
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		D7-90360	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	Discoid	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		G-A106	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-33410	Epidermal inclusion cyst	Kyste épidermique
SRT		F-01752	Equal density (isodense) lesion	Lésion de densité identique (isodense)
SRT		F-10440	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		G-A112	External	Externe
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	Cytostéatonécrose 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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
DCM		111263	Fibroadenomatoid hyperplasia	Hyperplasie fibro-adénomatoïde
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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
SRT		F-01792	Focal asymmetric breast tissue	Asymétrie focale du tissu mammaire
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	Galactocele	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 tissues sous-cutané
SRT		M-91220	Hemangioma - venous	Hémangiome veineux
SRT		M-91501	Hemangiopericytoma	Hémangiopéricytome
SRT		M-35060	Hematoma	Hématome

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
SRT		F-0176F	Heterogeneous calcification	Calcification punctiforme irrégulière (polymorphe, hétérogène)
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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
DCM		111219	Inappropriate image processing	Défaillance du processus de traitement d'image
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		G-A115	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		G-A113	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		G-A113	Internal	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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
SRT		G-A15A	Intra-articular	Intra-articulaire
DCM		111315	Intracystic papillary carcinoma	Carcinome papillaire intrakystique
SRT		M-85040	Intracystic papilloma	Papillome intrakystique
SRT		M-85072	Intraductal carcinoma micro-papillary	Carcinome intracanalaire de type micropapillaire
DCM		111341	Intraductal carcinoma, high grade	Carcinome intracanalaire
DCM		111313	Intraductal carcinoma, low grade	Carcinome intracanalaire de bas grade
DCM		111312	Intraductal comedocarcinoma with necrosis	Carcinome intracanalaire 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	Juvenille 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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
SRT		R-10230	latero-medial oblique	Latéro-médial oblique
SRT		T-14172	Latissimus dorsi muscle	Muscle grand dorsal
SRT		G-A101	Left	Gauche
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-A22A	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, NOS	Quadrant inféro-interne du sein, SAI
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, NOS	Quadrant inféro-externe du sein, SAI
SRT		T-D320A	Lower zone of lung	Zone inférieure du poumon
DCM		112084	Lucency	Clarté

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
SRT		F-01766	Lucent-centered calcification	Calcification à centre clair
SRT		T-28000	Lung	Poumon
DCM		111320	Lympathic vessel invasion	Embole lymphatique
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 histiocytoma	Histiocytofibrome malin
DCM		111334	Malignant melanoma of nipple	Mélanome malin du mamelon
SRT		D7-90370	Mammary duct ectasia	Galactophorite ectasiante 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		G-A109	Medial	Médial
SRT		G-A109	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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
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
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		G-A109	Middle	Milieu
SRT		G-A109	Middle	Médian
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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
SRT		M-84803	Mucinous adenocarcinoma (Colloid carcinoma)	Carcinome (mucineux) colloïde
SRT		G-A443	Multifocal	Multifocal
DCM		111329	Multifocal intraductal carcinoma	Carcinome intracanalaire multifocal
DCM		111332	Multifocal invasive ductal carcinoma	Carcinome canalaire infiltrant multifocal
DCM		111285	Multiple Intraductal Papillomas	Papillomes multiples
SRT		R-420AE	Muscular	Musculaire
SRT		M-88250	Myofibroblastoma	Myofibroblastome
SRT		R-41727	Narrow	Etroit
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 »

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
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 mamaire normal
DCM		111140	Normal interval follow-up	Intervalle normal de surveillance
SRT		M-02000	Normal shape	Forme normale
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	Interressant
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		G-A112	Outer	En dehors

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
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
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-D2236	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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
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)
SRT		J-004E8	Physician	Médecin
SRT		A-12024	Pin	Epingle
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		G-A106	Posterior	Postérieur
~~SRT~~		~~G-A106~~	~~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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
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
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 radiopro-tection
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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
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
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	Scalenous 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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
SRT		M-85023	Secretory (juvenile) carcinoma of the breast	Carcinome mammaire sécrétoire (juvénile)
SRT		T-280D0	Segment of lung	Segmentdu 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
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 châton
DCM		112152	Silhouette sign	Signe de la silhouette
DCM		111296	Silicone granuloma	Granulome au silicone
DCM		111059	Single Image Finding	Elément 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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
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
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-mastoïdien
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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
DCM		111065	Summary of Analyses	Résumé des analyses
DCM		111064	Summary of Detections	Résumé des procédures de détections
SRT		G-A139	Superficial	Superficiel
SRT		G-A116	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
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-A168	Surface	Surface
SRT		A-13510	Suture material	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 ésions « 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)

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
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
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-B0099	Ultrasound procedure	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		G-A116	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, NOS	Quadrant supéro-interne du sein, SAI

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
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, NOS	Quadrant supéro-externe du sein, SAI
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
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		G-A105	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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning English Language	Code Meaning French Language
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
DCM		121221	Volume of ellipsoid	Volume d'un éllipsoïde
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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning French Language	Equivalent ADICAP Code
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
DCM		111307	Carcinome basocellulaire du mamelon	B7A0
SRT		M-85003	Carcinome canalaire infiltrant	A7A0
DCM		111340	Carcinome épidermoïde du mamelon	E7A0
DCM		111341	Carcinome intracanalaire	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	Fibomatose	F0F0
SRT		M-90100	Fibroadénome	A0P2
SRT		M-90300	Fibroadénome juvénile	A0P2
SRT		M-88103	Fibrosarcome	F7A0
SRT		D7-90370	Galactophorite ectasiante 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 intracanalaire 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

Coding Scheme Designator	Coding Scheme Version	Code Value	Code Meaning French Language	Equivalent ADICAP Code
SRT		D7-90360	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
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	１０時
SRT		F-0178B	11 o'clock position	１１時
SRT		F-0178C	12 o'clock position	１２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		G-A105	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１ｃｍ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		D7-90360	Cyst of breast	嚢胞：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テ / 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	Juvenille 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		G-A109	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)	乳頭のパジェット病
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		G-A106	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（四分の一円）
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	ソフトウエアの故障
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-13510	Suture material	縫合；縫合材料
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-B0099	Ultrasound procedure	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にない
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, NOS
		Carbon dioxide gas
SRT	C-21005	Ethanol
		Ethyl alcohol
SRT	C-81100	Hypotensive agent, NOS
		Antihypertensive agent, NOS
		Antihypertensive drug, NOS
SRT	C-A7400	Thrombolytic agent, NOS
		Fibrinolytic agent, NOS
SRT	C-A7440	Injectable fibrinolysin
		Injectable plasmin
SRT	C-B0300	Contrast agent, NOS
		Radiographic contrast agent, NOS
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-10214	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	G-A105	Anterior
		Ventral
SRT	G-A106	Posterior
		Dorsal
SRT	G-A107	Cephalic
		Cephalad
		Rostral
		Cranial
SRT	G-A108	Caudal

Coding Scheme Designator	Code Value	Code Meaning
		Caudad
SRT	G-A109	Medial
		Median
		Middle
SRT	G-A10A	Mediolateral
		Midline
SRT	G-A112	External
		Outer
SRT	G-A113	Internal
		Inner
SRT	G-A115	Inferior
		Lower
SRT	G-A116	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-D105	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, NOS
		Removal of atherosclerotic plaque from artery, NOS
SRT	T-15460	Wrist joint, NOS
		Joint of Wrist, NOS
SRT	T-32000	Endo-cardiac
		Intra-cardiac
SRT	T-41000	Endo-arterial

Coding Scheme Designator	Code Value	Code Meaning
		Intra-arterial
SRT	T-46010	Innominate artery
		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

Coding Scheme Designator	Code Value	Code Meaning
		TAD
LN	11863-8	Trans Cerebellar Diameter
		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

Coding Scheme Designator	Code Value	Code Meaning
		Infection
SRT	F-01BF8	Ultrasound scan normal
		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-A5581	Vasovagal attack
		Vasovagal reaction
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

Coding Scheme Designator	Code Value	Code Meaning
SRT	P2-4A000	Examination of breast
		Clinical breast exam
SRT	P5-00032	Diagnostic radiography, stereotactic localization
		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

Coding Scheme Designator	Code Value	Code Meaning
		DCIS
SRT	P0-009B4	Evaluation procedure
		Clinical evaluation
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

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 Ventrical 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
33183-5	FWP by GA, Hadlock 1991
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 MA, 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

Code Value	Code Meaning
55752-0	Clinical Information
73568-8	Communication of Critical Results
73569-6	Radiation Exposure and Protection Information
8277-6	Body Surface Area
8302-2	Patient Height

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	~~Naso pharynx~~Nasopharynx	~~Naso pharyngoscopy~~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-D0146	Spine	Spinal endoscopy
SRT	T-DD006	Trachea and bronchus	Tracheobronchoscopy
SRT	T-70010	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 DICOM Microglossary Retired Codes (Normative)

This Annex identifies coded terms specified in earlier versions of the Standard that were included in the SNOMED DICOM Microglossary. The Microglossary and 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 SNOMED codes, but with different meanings; it is thus the combination of code and meaning that is retired
- 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 or SNM3
- 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

Table J-1. SNOMED DICOM Microglossary Retired Codes

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	Transforamenal	R-4087B	
R-102CC	Transoral	G-D00B	
R-102CE	Transorbital	R-40554	

Retired Code Value	Code Meaning	Replacement Code	Notes
R-11300	Transverse	G-A117	
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-D0146	
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	
P5-01000	Image acquisition procedure		
P5-01101	Image acquisition after administration of contrast agent		
P5-01103	Image acquisition during cardiac pacing	P2-35000	

Retired Code Value	Code Meaning	Replacement Code	Notes
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	
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	

Retired Code Value	Code Meaning	Replacement Code	Notes
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	
P5-B3066	Dipyridamole stress echocardiography	P2-3110A	
P5-B3070	Cardiac pacing echocardiography	P2-3110B	
P5-B3081	Adult echocardiography	P5-B3004	
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	Hypokinesis	F-32056	
F-32056	Mild hypokinesis	R-00327	
P5-B3009	Exercise stress echocardiography	P5-B3050	

Retired Code Value	Code Meaning	Replacement Code	Notes
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).
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).

Retired Code Value	Code Meaning	Replacement Code	Notes
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).

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 ~~SNOMED~~ 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-41070	Abdominal aorta and its branches	
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-D8100	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	

SNOMED Code Value	Code Meaning	Body Part Examined
T-D00AB	Body conduit	
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
D4-31320	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	

SNOMED Code Value	Code Meaning	Body Part Examined
T-42400	Descending aorta	
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	

SNOMED Code Value	Code Meaning	Body Part Examined
T-47490	Genicular artery	
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-D1212	Hypoglossal	
T-55300	Hypopharynx	
T-58600	Ileum	ILEUM
T-41040	Iliac arterial system	
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	

SNOMED Code Value	Code Meaning	Body Part Examined
T-71000	Kidney	KIDNEY
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	~~Naso pharynx~~Nasopharynx	
T-D1600	Neck	NECK
R-FAB52	Neck and Chest	NECKCHEST
R-FAB53	Neck, Chest and Abdomen	NECKCHESTABDOMEN

SNOMED Code Value	Code Meaning	Body Part Examined
R-FAB54	Neck, Chest, Abdomen and Pelvis	NECKCHESTABDPELV
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	

SNOMED Code Value	Code Meaning	Body Part Examined
T-12420	Radius	RADIUS
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-D0146	Spine	SPINE
T-C3000	Spleen	SPLEEN
T-46460	Splenic artery	
T-48890	Splenic vein	
T-15610	Sternoclavicular joint	
T-11210	Sternum	STERNUM

SNOMED Code Value	Code Meaning	Body Part Examined
T-57000	Stomach	STOMACH
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	

SNOMED Code Value	Code Meaning	Body Part Examined
T-D8200	Upper arm	ARM
T-04002	Upper inner quadrant of breast	
T-04004	Upper outer quadrant of breast	
T-70010	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	ATLANTOOCCIPITAL
T-74000	Bladder	BLADDER
T-12771	Calcaneal tubercle	
T-D0788	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 vertrebrae	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

SNOMED Code Value	Code Meaning	Body Part Examined
T-12710	Femur	FEMUR
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	Stiffle	STIFLE
T-11096	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-70000	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

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-15710	Hip joint	HIP	24136001	35178	0000470	C32742	0001486	C0019558
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

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-D9800	Toe	TOE	29707007	25046	0000048	C33788	0001466	C0040357
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				

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
Colon	C12382	C0009368	C22528	C1522281	C60554	C1882628
Cornea	C12342	C0010031	C22717	C2700413		
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

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
Patella	C33282	C0030647				
Pelvis	C12767	C0030797	C23698			
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	resistent
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