DICOM CONFORMANCE STATEMENT

FOR

Resona 7/Resona 7 Series

DIAGNOSTIC ULTRASOUND SYSTE

1 Conformance Statement Overview

This document describes the conformance to the ACR-NEMA DICOM 3.0 Standard by the ultrasound system of Resona 7 Series. We specify ultrasound system generally refer to the products above in this document. The ultrasound system implements the necessary DICOM services to download worklists from an information system, save acquired Ultrasound (US) images and associated Structured Reports to a network storage device and/or removable media, print to a networked hardcopy device, query and retrieve the US images from a networked storage system, and inform the information system about the works actually done. Table 1 provides an overview of the supported network services, Table 2 lists the supported Media Storage Application Profiles, and Table 3 lists the supported Structured Report Templates.

Table 1
NETWORK SERVICES

SOP Classes	User of Service (SCU)	Provider of Service (SCP)
Transfer Storage		
Verification	Yes	Yes
Ultrasound Image Storage	Yes	Yes
Ultrasound Multi-frame Image Storage	Yes	Yes
Secondary Capture Image Storage	Yes	Yes
Encapsulated PDF Storage	Yes	Yes
Raw Data Storage	Yes	Yes
Enhanced US Volume Storage	Yes	No
Query/Retrieve		
Study Root Query/Retrieve Information Model FIND	Yes	No
Study Root Query/Retrieve Information Model MOVE	Yes	No
Workflow Management		
Modality Worklist Information Model Find	Yes	No
Modality Performed Procedure Step	Yes	No
Storage Commitment Push Model	Yes	No

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actively involved in the development of the DICOM standard,. Therefore, Mindray reserves the right to make changes to its products or to discontinue its delivery.

The Ultrasound System follows the IHE SWF, PDI, ED Profiles.

3.4 Terms and Definitions

- **Abstract Syntax** the information agreed to be exchanged between applications, generally equivalent to a Service/Object Pair (SOP) Class. Examples: Verification SOP Class, Modality Worklist Information Model Find SOP Class, Computed Radiography Image Storage SOP Class.
- **Application Context** the specification of the type of communication used between *Application Entities*. Example: DICOM network protocol.
- **Application Entity (AE)** an end point of a DICOM information exchange, including the DICOM network or media interface software; i.e., the software that sends or receives DICOM information objects or messages. A single device may have multiple Application Entities.
- **Application Entity Title** the externally known name of an *Application Entity*, used to identify a DICOM application to other DICOM applications on the network. The Called AE Title defines the intended receiver of an Association. Nevertheless, the Calling AE Title defines the requestor of an Association.
- **Application Profile** - A Media Storage Application Profile defines a selection of choices at the various layers of the DICOM Media Storage Model which are applicable to a specific need or context in which the media interchange is intended to be performed.
- **Association** a network communication channel set up between *Application Entities*.
- **Association Establishment** - an Association Establishment is the first phase of communication between two DICOM Application Entities. The AEs use the Association Establishment to negotiate how data will be encoded and the type of data to be exchanged.
- **Attribute** a unit of information in an object definition; a data element identified by a *tag*. The information may be a complex data structure (Sequence), itself composed of lower level data elements. Examples: Patient ID (0010,0020), Accession Number (0008,0050), Photometric Interpretation (0028,0004), Procedure Code Sequence (0008,1032).
- **DICOM File Format** - the DICOM File Format provides a means to encapsulate in a File the Data Set representing a SOP Instance related to a DICOM Information Object.
- **DICOM Message Service Element (DIMSE)** a DIMSE defines the services and protocols utilized by an Application Entity to exchange messages.
- **File** - a File is an ordered string of zero or more bytes, where the first byte is at the

beginning of the file and the last byte is at the end of the File. Files are identified by an unique File ID and may by written, read, or deleted.

- **File Meta Information** - the File Meta Information includes identifying information on the encapsulated Data Set. It is a mandatory header at the beginning of every DICOM File.
- **Information Object Definition (IOD)** - the specified set of *Attributes* that comprise a type of data object; does not represent a specific instance of the data object, but rather a class of similar data objects that have the same properties. The *Attributes* may be specified as Mandatory (Type 1), Required but possibly unknown (Type 2), or Optional (Type 3), and there may be conditions associated with the use of an Attribute (Types 1C and 2C). Examples: Print Job IOD.
- **Joint Photographic Experts Group (JPEG)** a set of standardized image compression techniques, available for use by DICOM applications.
- **Module** a set of *Attributes* within an *Information Object Definition* that are logically related to each other. Example: Patient Module includes Patient Name, Patient ID, Patient Birth Date, and Patient Sex.
- **Negotiation** first phase of *Association* establishment that allows *Application Entities* to agree on the types of data to be exchanged and how that data will be encoded.
- **Physical Media** - a piece of material with recording capabilities for streams of bits. Characteristics of a Physical Media include form factor, mechanical characteristics, recording properties and rules for recording and organizing bit streams in accessible structures.
- **Presentation Context** the set of DICOM network services used over an *Association*, as negotiated between *Application Entities*; includes *Abstract Syntaxes* and *Transfer Syntaxes*.
- **Protocol Data Unit (PDU)** a packet (piece) of a DICOM message sent across the network. Devices must specify the maximum size packet they can receive for DICOM messages.
- **Security Profile** a set of mechanisms, such as encryption, user authentication, or digital signatures, used by an *Application Entity* to ensure confidentiality, integrity, and/or availability of exchanged DICOM data
- **Service Class Provider (SCP)** role of an *Application Entity* that provides a DICOM network service; typically, a server that performs operations requested by another *Application Entity* (*Service Class User*). Examples: Picture Archiving and Communication System (image storage SCP, and image query/retrieve SCP), Radiology Information System (modality worklist SCP).
- **Service Class User (SCU)** role of an *Application Entity* that uses a DICOM network service; typically, a client. Examples: imaging modality (image storage SCU, and modality worklist SCU), imaging workstation (image query/retrieve SCU)
- **Service/Object Pair (SOP) Class** the specification of the network or media transfer (service) of a particular type of data (object); the fundamental unit of DICOM

interoperability specification. Examples: Ultrasound Image Storage Service, Basic Grayscale Print Management.

- **Service/Object Pair (SOP) Instance** an information object; a specific occurrence of information exchanged in a *SOP Class*. Examples: a specific x-ray image.
- **Tag** a 32-bit identifier for a data element, represented as a pair of four digit

  the tag is for a private (manufacturer-specific) data element. Examples: (0010,0020) [Patient ID], (07FE,0010) [Pixel Data], (0019,0210) [private data element]
- **Transfer Syntax** the encoding used for exchange of DICOM information objects and messages. Examples: *JPEG* compressed (images), little endian explicit value representation.
- **Unique Identifier (UID)**
  specific object or a class of objects; an ISO-8824 Object Identifier. Examples: Study Instance UID, SOP Class UID, SOP Instance UID.
- **Value Representation (VR)** the format type of an individual DICOM data element,

  can be transmitted with either explicit identification of the type of each data element (Explicit VR), or without explicit identification (Implicit VR); with Implicit VR, the receiving application must use a DICOM data dictionary to look up the format of each data element.

3.5 Acronyms, Abbreviations, and Symbols

The following acronyms and abbreviations are used in this document.

ACR	American College of Radiology
AE	Application Entity
CDR	Compact Disk Recordable
DICOM	Digital Imaging and Communications in Medicine
DIMSE	DICOM Message Service Element
DIMSE-C	DICOM Message Service Element-Composite
FSC	File-Set Creator
FSR	File-Set Reader
FSU	File-Set Updater
HIS	Hospital Information System
IHE	Integrating the Healthcare Enterprise
IOD	Information Object Definition
ISO	International Standard Organization
JPEG	Joint Photographic Experts Group
MODALITY	Ultrasound System
MPPS	Modality Performed Procedure Step

4 Networking

4.1 Implementation Model

4.1.1 Application Data Flow

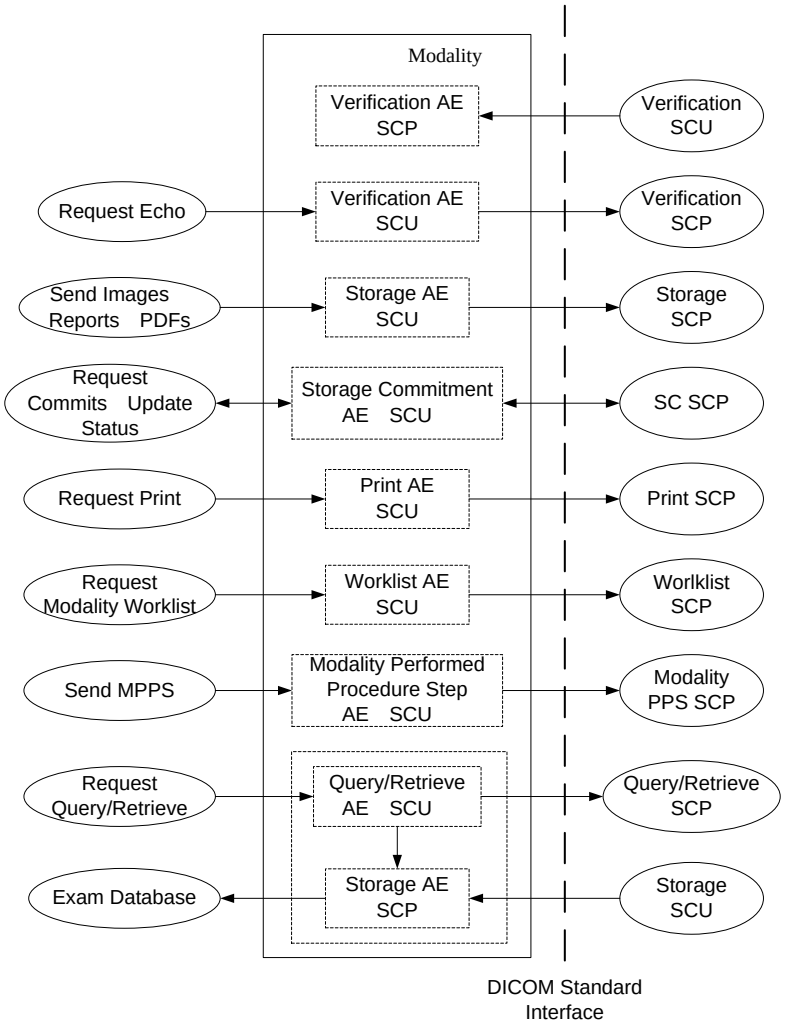

Figure 1

Implementation Model

Note Storage AE SCP only be used in Query/Retrieve

This application entity provides a user interface, internal database and network listener that spawns additional threads as necessary to handle incoming connections.

Conceptually the network services may however, in fact

- Verification AE (as SCU and SCP)

The operat torage service are described

Operation 1

Step 1: Select the images fr

or printing

Step 2: End Exam, the single frame images and secondary capture images of ended exam would automatically send to the default print service SCPs which are set to be default in the DICOM service preset dialog.

Notes: This
DICOM print will be not active until one page is filled with the images or the exam end. For
\
be not active until the shortcut key has been pressed 6 times. However, when the exam end, the DICOM print will be active even if one page is not filled.

- Operation 2

Step 1: Open the system preset dialog and switch to the "key config" tab page.

Step 2: Set the shortcut key which which means saving image to hard disk and combines the key with the function of sending image to the default DICOM print SCPs.

Step 3: During the examining, the user can press the print key to send image to default DICOM print service SCPs.

The operations for manual print service are described below:

- Operation 1

Step 1: Select the images from thumbnail menu in main UI.

Step 2: Pre print service SCPs.

Step 3: Send the images to the DICOM print service SCPs.

- Operation 2

Step 1: Select exams in the iStation Dialog.

Step 2: Pr Exam and select DICOM print service SCPs.

Step 3: Send the single frame images and secondary capture images of the selected exams to the DICOM print service SCPs.

- Operation 3

Step 1: Select thumbnail in the iStation Dialog.

Step 2: print service SCPs.

Step 3: Send the image to the DICOM print service SCPs.

- Operation 4

Step 1: Open the review dialog and select the images.

Step 2: P print SCPs.

Step 3: Send the images to the DICOM print service SCPs.

Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	No	Yes[1]
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	No	Yes[1]
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	No	Yes[1]
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Yes	Yes[1]
Comprehensive Structured Report Storage	1.2.840.10008.5.1.4.1.1.88.33	Yes	Yes[1]
Encapsulated PDF Storage	1.2.840.10008.5.1.4.1.1.104.1	Yes	Yes[1]
Enhanced US Volume Storage	1.2.840.10008.5.1.4.1.1.6.2	Yes	No
Raw Data Storage	1.2.840.10008.5.1.4.1.1.66	Yes	Yes
Storage Commitment Push Model	1.2.840.10008.1.20.1	Yes	No
Basic Grayscale Print Management Meta	1.2.840.10008.5.1.1.9	Yes	No
Basic Color Print Management Meta SOP Class	1.2.840.10008.5.1.1.18	Yes	No
Basic Film Session SOP Class	1.2.840.10008.5.1.1.1	Yes	No
Basic Film Box SOP Class	1.2.840.10008.5.1.1.2	Yes	No
Basic Grayscale Image Box SOP Class	1.2.840.10008.5.1.1.4	Yes	No
Printer SOP Class	1.2.840.10008.5.1.1.16	Yes	No
Print Job SOP Class	1.2.840.10008.5.1.1.14	Yes	No
Modality Worklist Information Model Find	1.2.840.10008.5.1.4.31	Yes	No
Modality Performed Procedure Step SOP Class	1.2.840.10008.3.1.2.3.3	Yes	No
Study Root Query/Retrieve Information Model - Find	1.2.840.10008.5.1.4.1.2.2.1	Yes	No
Study Root Query/Retrieve Information Model - Move	1.2.840.10008.5.1.4.1.2.2.2	Yes	No

Note 1 Yes only used in Query/Retrieve, otherwise No.

4.2.1.2 Association Establishment Policies

4.2.1.2.1General

The DICOM standard application context name for DICOM 3.0 is always proposed:

Table 6

DICOM Application Context for Modality AE

Application Context Name	1.2.840.10008.3.1.1.1

The PDU size is configurable with a minimum size of 16,384 and a maximum size of 65,536. The default PDU size is 32,768.

4.2.1.2.2Number of Associations

The system initiates one Association at a time for each destination to which a transfer request is being processed in the active job queue list. Since Storage and Print tasks are executed within a same thread, when they are selected simultaneously, only one job will be active at a time, the other(s) remain pending until the active job is successful or failed.

4.3.1.1.1.1 Proposed Presentation Contexts

The Verification AE (as SCU) supports the following Presentation Contexts for Verification.

Table 10

Presentation Contexts for Verification

PROPOSED PRESENTATION CONTEXTS					
Abstract Syntax		**Transfer Syntax**		**Role**	**Ext. Neg.**
Name	**UID**	**Name**	**UID**		
Verification	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None

4.3.1.1.1.2 SOP Specific Conformance

It summarizes the behavior of Ultrasound System when receiving status codes in a C-ECHO response.

Table 11

Verification C-Echo Response StatusW*nBT/F7 10.56 Tf1 0 0 1se StatusW*nBT/F7 10.56 Tf1

Error	Data Set does not match SOP Class	A9xx	The association is aborted using A-ABORT and the send task is marked as failed. The reason is logged and, If user selects the failed task, the reasons for this failure will be showed via task management.
Error	Cannot Understand	Cxxx	The association is aborted using A-ABORT and the send job is marked as failed. The reason is logged and, If user selects the failed task, the reasons for this failure will be showed via task management.
Failure	Any other failure	xxxx	The association is aborted using A-ABORT and the send job is marked as failed. The reason is logged and, If user selects the failed task, the reasons for this failure will be showed via task management.
Warning	Coercion of Data Elements	B000	Image transmission is considered successful but the status meaning is logged.
	Data Set does not match SOP Class	B007	Image transmission is considered successful but the status meaning is logged.
	Elements Discarded	B006	Image transmission is considered successful but the status meaning is logged.
	Any other status code.	xxxx	The Association is aborted using A-ABORT and the send job is marked as failed. The status code is logged and the job failure is reported to the user via task management.

The behavior during communication failure is summarized in the Table below:

Table 14

Storage Communication Failure Behavior

Exception	Behavior
Timeout	The Association is aborted using A-ABORT and the send job is marked as failed. The reason is logged and the job failure is reported to the user via task management.
Association aborted by the SCP or network layers	The send job is marked as failed. The reason is logged and the job failure is reported to the user via task management.

The following tables provide the list of attributes requested in the Storage.

Table 15

US Image IOD

(0008,1032)	SQ	3	Procedure Code Sequence	MWL
(0020,000D)	UI	1	Study Instance UID	MWL/AUTO
(0020,0010)	SH	2	Study ID	MWL/AUTO

Table 23

Patient Study Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND	COMMENTS
(0008,1080)	LO	3	Admitting Diagnoses Description	MWL	
(0010,1010)	AS	3	Patient's Age	MWL/USER, default is set to zero length If the user set Patient Birth Date, it will be calculated automatically.	
(0010,1020)	DS	3	Patient's Size	MWL/USER, default is set to zero length	
(0010,1030)	DS	3	Patient's Weight	MWL/USER, default is set to zero length	
(0010,21B0)	LT	3	Additional Patient History	MWL	

Table 24

General Series Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS

				service is not enabled.
(0018,1802)	CS	3	Time Distribution Protocol	: Time Synchronized service is enabled. Set to zero length: Time Synchronized service is not enabled.

Table 30

General Equipment Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0008,0070)	LO	2	Manufacturer	MINDRAY
(0008,0080)	LO	3	Institution Name	CONFIG
(0008,1010)	SH	3	Station Name	AUTO-Set to computer name
(0008,1040)	LO	3	Institutional Department Name	CONFIG
(0008,1090)	LO	3	Manufacturer's Model Name	Resona 7
(0018,1000)	LO	3	Device Serial Number	The Ethernet card Mac Address
(0018,1020)	LO	3	Software Version(s)	AUTO

Table 31

SC Equipment Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0008,0060)	CS	3	Modality	US
(0008,0064)	CS	1	Conversion Type	WSD
(0018,1010)	LO	3	Secondary Capture Device ID	Resona 7
(0018,1016)	LO	3	Secondary Capture Device Manufacturer	MINDRAY
(0018,1018)	LO	3	Secondary Capture Device Manufacturer's Model Name	Resona 7

(003A,0300)	SQ	2C	Multiplexed Audio Channels Description Code Sequence	Used if the Transfer Syntax is MPEG2 MP@ML,otherwise not.
(003A,0208)	SQ	1	>Channel Source Sequence	Doppler audio
(0008,0100)	SH	1	>>Code Value	109113
(0008,0102)	SH	1	>>Coding Scheme Designator	DCM
(0008,0104)	LO	1	>>Code Meaning	Doppler audio
(003A,0301)	IS	1	>Channel Identification Code	1

(0018,1019)	LO	3	Secondary Capture Device Software Version(s)	AUTO

Table 44

SC Image Module Used for Second Capture Images Only

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0018,1012)	DA	3	Date of Secondary Capture	AUTO

(0018,1014)

			Encapsulated Document	
(0042,0011)	OB	1	Encapsulated Document	The PDF Document

Table 46

Acquisition Context Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0040,0555)	SQ	2	Acquisition Context Sequence	Set to zero length

Table 47

Raw Data Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0020,0013)	SQ	2	Instance Number	Set to zero length
(0008,0023)		1	Content Date	AUTO
(0008,0033)		1	19 402.67 146.66	

			Acquisition Duration	
(0020,9157)	UL	1C	>>Dimension Index Values	Set by the system
(0020,930E)	SQ	1	>Plane Position (Volume) Sequence	
(0020,9301)	FD	1	>>Image Position (Volume)	Set by the system
(0020,9310)	SQ	1	>Temporal Position Sequence	
(0020,930D)	FD	1	>>Temporal Position Time Offset	Set by the system
(0018,9807)	SQ	1	>Image Data Type Sequence	
(0018,9808)	CS	1	>>Data Type	Set by the system or
(0018,980B)	CS	1	>>Aliased Data Type	NO
(0020,0013)	IS	1	Instance Number	AUTO
(0008,0023)	DA	1	Content Date	AUTO
(0008,0033)	TM	1	Content Time	AUTO
(0028,0008)	IS	1	Number of Frames	AUTO

Table 49

Multi-frame Dimension Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0020,9221)	SQ	1	Dimension Organization Sequence	
(0020,9164)	UI	1	>Dimension Organization	AUTO

			UID	
(0020,9222)	SQ	1	Dimension Index Sequence	Including 3 items.
(0020,9165)	AT	1		

(0028,0030)	DS	1	Pixel Spacing	Set by the system
(0018,980C)	CS	1C	Position Measuring Device Used	FREEHAND
(2050,0020)	CS	1	Presentation LUT Shape	IDENTITY
(0028,1052)	DS	1	Rescale Intercept	0
(0028,1053)	DS	1	Rescale Slope	1
(0028,0301)	CS	1	Burned In Annotation	NO
(0018,9809)	SQ	1	Transducer Scan Pattern Code Sequence	
>(0008,0100)	SH	1	Code Value	125242
>(0008,0102)	SH	1	Coding Scheme Designator	DCM
>(0008,0103)	SH	1	Coding Scheme Version	20090409
>(0008,0104)	LO	1	Code Meaning	Volume scan pattern
(0018,980D)	SQ	1	Transducer Geometry Code Sequence	
>(0008,0100)	SH	1	Code Value	125254
>(0008,0102)	SH	1	Coding Scheme Designator	DCM
>(0008,0103)	SH	1	Coding Scheme Version	20090409
>(0008,0104)	LO	1	Code Meaning	Sector ultrasound transducer geometry
(0018,980E)	SQ	1	Transducer Beam Steering Code Sequence	
>(0008,0100)	SH	1	Code Value	125258
>(0008,0102)	SH	1	Coding Scheme Designator	DCM
>(0008,0103)	SH	1	Coding Scheme Version	20090409
>(0008,0104)	LO	1	Code Meaning	Mechanical beam steering

Presentation Context Table					
Abstract Syntax		**Transfer Syntax**		**Role**	**Ext. Neg.**
Name	**UID**	**Name List**	**UID List**		
Storage Commitment Push Model	1.2.840.10008.1.20.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None

Storage Commitment N-Actiont Request Attributes

Action Type Name	Event Type ID	Attribute	Tag
Storage Commitment Request	1	Transaction UID	(0008,1195)
		Referenced SOP Sequence	(0008,1199)
		>Referenced SOP Class UID	(0008,1150)
		>Referenced SOP Instance UID	(0008,1155)
		Instance Creation Date	(0008,0012)
		Instance Creation Time	(0008,0013)

4.3.1.1.3.3.2 Storage Commitment Notifications (N-EVENT-REPORT)

Storage Commitment AE is capable of receiving an N-EVENT-REPORT on a different association than the one on which the N-ACTION operation was performed.The behavior of Storage Commitment AE when receiving Event Types within the N-EVENT-REPORT is summarized in the table below.

Table 55

Storage Commitment N-Event-Report Behavior

Event Type ID	Behavior
1	The storage Commitment request is considered successful and the storage commitment column of iStation Column is marked with a tick.
2	The storage Commitment request is considered Failed.

The reasons for returning specific status codes in a N-EVENT-REPORT response are summarized in the table below:

Table 56

Storage Commitment N-EVENT-REPORT Response Status Reasons

Service Status	Further Meaning	Error Code	Reasons
Success	Success	0000	The notification event has been successfully received.
Failure	Processing Failure	0110H	An internal error occurred during processing of the N-EVENT-REPORT.

Tags supported for an N-Event-Report message.

Table 57

Storage Commitment N-Event-Report Message Contents

EVENT TYPE NAME	EVENT TYPE ID	ATTRIBUTE	TAG	REQUIREMENT TYPE SCP
Storage Commitment Request Successful	1	Transaction UID	(0008,1195)	1
		Referenced SOP Sequence	(0008,1199)	1
		>Referenced SOP Class UID	(0008,1150)	

(Printer SOP Class). The Printer can send this message at any time. Print AE does not require the N-EVENT-REPORT to be sent. Print AE is capable of receiving an N-EVENT-REPORT notification at any time during an association.

9. N-DELETE on the Film Box SOP Class deletes the complete Film box SOP Instance hierarchy.
10. N-DELETE on the Film Session SOP Class deletes the complete Film Session SOP Instance hierarchy.
11. Print AE closes the association with the Printer.

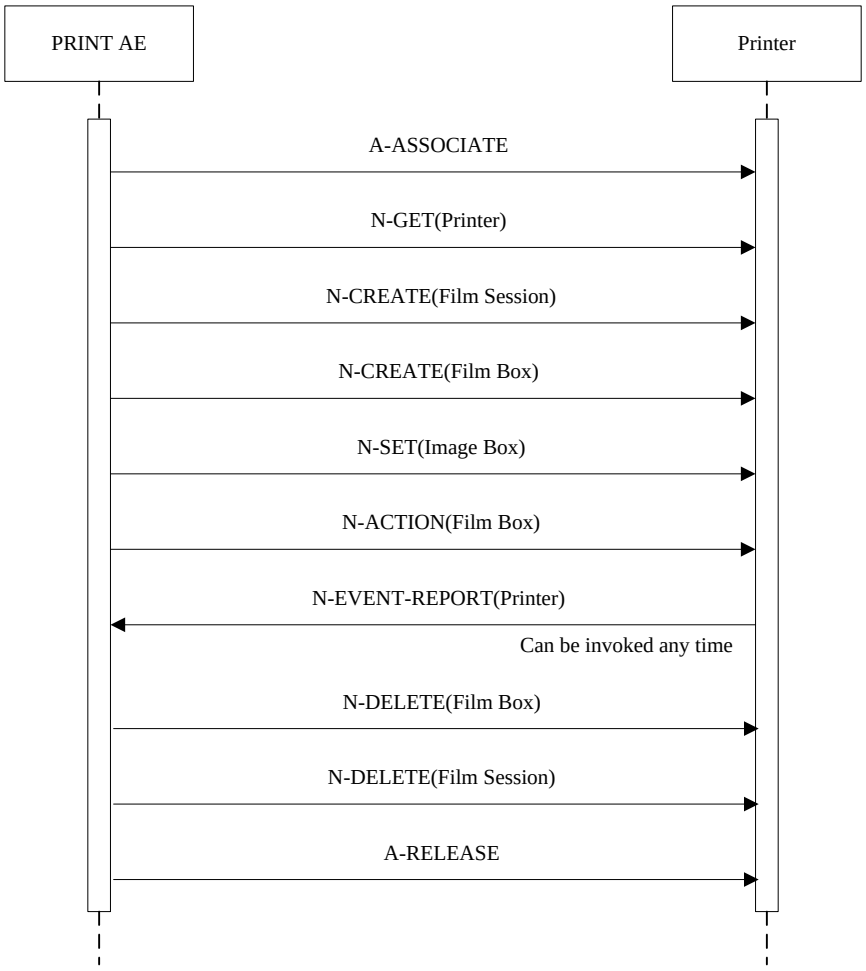

Figure 4

Sequencing of Activity Film Images

4.3.1.1.4.2 Proposed Presentation Contexts

Print AE is capable of proposing the Presentation Contexts shown in the Table below:

Table 58

Proposed Presentation Contexts for Activity Film Images

Presentation Context Table					
Abstract Syntax		**Transfer Syntax**		**Role**	**Ext. Neg.**
Name	**UID**	**Name List**	**UID List**		
Basic Grayscale Print Management Meta	1.2.840.10008.5.1.1.9	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
Basic Color Print Management Meta	1.2.840.10008.5.1.1.18	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	None

CONFIG the attribute value source is a configurable parameter

PRINTER the attribute value is provided by printer

4.3.1.1.4.4 SOP Specific Conformance for the Printer SOP Class

Print AE supports the following DIMSE operations and notifications for the Printer SOP Class:

N-GET

N-EVENT-REPORT

Details of the supported attributes and status handling behavior are described in the following subsections.

4.3.1.1.4.4.1 Printer SOP Class Operations (N-GET)

Print AE uses the Printer SOP Class N-GET operation to obtain information about the current printer status. The attributes excepted via N-GET are listed in the Table below:

Table 60

Printer SOP Class N-GET Request Attribute Identifier List

Attribute Name	Tag
Printer Status	(2110,0010)
Printer Status Info	(2110,0020)
Printer Name	(2110,0030)
Manufacturer	(0008,0070)
Manufacturer Model Name	(0008,1090)
Device Serial Number	(0018,1000)
Software Version(s)	(0018,1020)
Date of Last Calibration	(0018,1200)
Time of Last Calibration	(0018,1201)

The behavior of Print AE when encountering status codes in a N-GET response is summarized in the Table below:

Table 61

Printer SOP Class N-GET Response Status Handling Behavior

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The request to get printer status information was success.
Warning	any warning	xxxx	The print-job continues to be printed.
Failure	any failure	xxxx	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.

4.3.1.1.4.4.2 Printer SOP Class Notifications

(N-EVENT-REPORT)

Print AE is capable of receiving an N-EVENT-REPORT request at any time during an association. The behavior of Print AE when receiving Event Types within the N-EVENT-REPORT is summarized in the Table 62.

Table 62

Printer SOP Class N-Event-Report Behavior

Event Type Name	Event Type ID	Behavior
Normal	1	The print-job continues to be printed.
Warning	2	The print-job continues to be printed. The contents of Printer Status Info (2110, 0020) is logged and reported to the user via the job-control application.
Failure	3	The print-job is marked as failed. The contents of Printer Status Info (2110, 0020) is logged and reported to the user via the job-control application.
*	*	An invalid Event Type ID will cause a status code of 0113H to be returned in a N-EVENT-REPORT response.

The reasons for returning specific status codes in a N-EVENT-REPORT response are summarized in the Table below:

Table 63

Printer SOP Class N-EVENT-REPORT Response Status Reasons

Service Status	Further Meaning	Error Code	Reasons
Success	Success	0000	The notification event has been successfully received.
Failure	No Such Event Type	0113H	An invalid Event Type ID was supplied in the N-EVENT-REPORT request.
Failure	Processing Failure	0110H	An internal error occurred during processing of the N-EVENT-REPORT. A short description of the error will be returned in Error Comment (0000, 0902).

4.3.1.1.4.5 SOP Specific Conformance for the Film Session SOP Class

Print AE supports the following DIMSE operations for the Film Session SOP Class:

N-CREATE

N-DELETE

Details of the supported attributes and status handling behavior are described in the following subsections.

4.3.1.1.4.5.1 Film Session SOP Class Operations (N-CREATE)

The attributes supplied in an N-CREATE Request are listed in the Table below:

Table 64
Film Session SOP Class N-CREATE Request Attributes

Attribute Name	Tag	VR	Value	Presence of Value	Source
Number of Copies	(2000,0010)	IS	[1, 100]	ALWAYS	CONFIG
Print Priority	(2000,0020)	CS	LOW, MED,HIGH	ALWAYS	CONFIG
Medium Type	(2000,0030)	CS	BLUE FILM, CLEAR FILM, PAPER	ALWAYS	CONFIG
Film Destination	(2000,0040)	CS	MAGAZINE PROCESSOR	ALWAYS	CONFIG

The behavior of Print AE when encountering status codes in a N-CREATE response is summarized in the Table below:

Table 65
Film Session SOP Class N-CREATE Response Status Handling Behavior

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has completed the operation successfully.
Warning	Memory allocation not supported	B600	The N-CREATE operation is considered successful.
Warning	any warning	xxxx	The N-CREATE operation is considered successful.
Failure	any failure	xxxx	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.

4.3.1.1.4.5.2 Film Session SOP Class Operations (N-DELETE)

The behavior of Print AE when encountering status codes in a N-DELETE response is summarized in the Table below:

Table 66
Printer SOP Class N-DELETE Response Status Handling Behavior

Service Status	Further Meaning	Error Code	Behavior

	warning		
Failure	Any failure	xxxx	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.

4.3.1.1.4.6 SOP Specific Conformance for the Film Box SOP Class

Print AE supports the following DIMSE operations for the Film Box SOP Class:

N-CREATE

N-ACTION

N-DELETE

Details of the supported attributes and status handling behavior are described in the following subsections.

4.3.1.1.4.6.1 Film Box SOP Class Operations (N-CREATE)

The attributes supplied in an N-CREATE Request are listed in the Table below:

Table 67
Film Box SOP Class N-CREATE Request Attributes

Attribute Name	Tag	VR	Value	Presence of Value	Source
Image Display Format	(2010,0010)	CS	PORTRAIT: STANDARD\1,1 STANDARD\1,2 STANDARD\1,3 STANDARD\2,1 STANDARD\2,2 STANDARD\2,3 STANDARD\2,4 STANDARD\3,3 STANDARD\3,4 STANDARD\3,5 STANDARD\3,6 STANDARD\4,4 STANDARD\4,5 STANDARD\4,6 STANDARD\4,7 STANDARD\4,8 STANDARD\5,5	ALWAYS	CONFIG

			STANDARD\5,6 STANDARD\5,7 STANDARD\5,8 STANDARD\6,6 STANDARD\6,7 STANDARD\6,8 STANDARD\6,9 STANDARD\6,10 STANDARD\7,7 STANDARD\7,8 STANDARD\7,9 STANDARD\7,10 STANDARD\8,8 STANDARD\8,9 STANDARD\8,10 LANDSCAPE: STANDARD\1,1 STANDARD\2,1 STANDARD\3,1 STANDARD\1,2 STANDARD\2,2 STANDARD\3,2 STANDARD\4,2 STANDARD\3,3 STANDARD\4,3 STANDARD\5,3 STANDARD\6,3 STANDARD\4,4 STANDARD\5,4 STANDARD\6,4 STANDARD\7,4 STANDARD\8,4 STANDARD\5,5 STANDARD\6,5 STANDARD\7,5 STANDARD\8,5		

			STANDARD\6,6 STANDARD\7,6 STANDARD\8,6 STANDARD\9,6 STANDARD\10,6 STANDARD\7,7 STANDARD\8,7 STANDARD\9,7 STANDARD\10,7 STANDARD\8,8 STANDARD\9,8 STANDARD\10,8		
Referenced Film Session Sequence	(2010,0500)	SQ		ALWAYS	AUTO
>Referenced SOP Class UID	(0008,1150)	UI	1.2.840.10008.5.1.1.1	ALWAYS	AUTO
>Referenced SOP Instance UID	(0008,1155)	UI	From created Film Session ef.71 TmI		

Max Density	(2010,0130)	US	0 .. 65535	ANAP	CONFIG
Min Density	(2010,0120)	US	0 .. 65535	ANAP	CONFIG
Trim	(2010,0140)	CS	YES or No	ALWAYS	CONFIG
Configuration Information	(2010,0150)	ST	User defined text	ANAP	USER

The behavior of Print AE when encountering status codes in a N-CREATE response is summarized in the Table below:

Table 68

Film Box SOP Class N-CREATE Response Status Handling Behavior

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has completed the operation successfully.
Warning	Requested Min Density or Max range	B605H	The N-CREATE operation is considered successful.
Warning	Any other warning	xxxx	The N-CREATE operation is considered successful.
Failure	There is an existing Film Box that has not been printed and N-ACTION at the Film Session level is not supported. A new Film Box will not be created when a previous Film Box has not been printed.	C616H	C The association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and the job failure is reported to the user.
Failure	Any failure	xxxx	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.

4.3.1.1.4.6.2 Film Box SOP Class Operations (N-ACTION)

An N-ACTION Request is issued to instruct the Print SCP to print the contents of the Film Box. The Action Reply argument in an N-ACTION response is not evaluated.

The behavior of Print AE when encountering status codes in a N-ACTION response is summarized in the Table below:

Table 69

Film Box SOP Class N-ACTION Response Status Handling Behavior

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has completed the operation successfully. The film has been accepted for printing.
Warning	Film Box SOP Instance hierarchy does not contain Image Box SOP Instances (empty page)	B603H	The N-ACTION operation is considered successful.
Warning	Image size is larger than Image Box size. The image has been demagnified.	B604H	The N-ACTION operation is considered successful.
Warning	Image size is larger than Image Box size. The image has been cropped to fit.	B609H	The N-ACTION operation is considered successful.
Warning	Image size or Combined Print Image Size is larger than Image Box size. The image or combined Print Image has been decimated to fit.	B60AH	The N-ACTION operation is considered successful.
Warning	Any other warning	xxxx	The N-ACTION operation is considered successful.
Failure	Unable to create Print Job SOP Instance; print queue is full.	C602	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.
Failure	Image size is larger than Image Box size.	C603	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.
Failure	Combined Print Image Size is larger than Image Box size.	C613	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.
Failure	Any other failure	xxxx	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.

4.3.1.1.4.6.3 Film Session SOP Class Operations (N-DELETE)

The behavior of Print AE when encountering status codes in a N-DELETE response is summarized in the Table below:

Table 70

Printer SOP Class N-DELETE Response Status Handling Behavior

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has completed the operation successfully.
Warning	Any warning	xxxx	The N-DELETE operation is considered successful.
Failure	Any other failure	xxxx	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.

4.3.1.1.4.7 SOP Specific Conformance for the Image Box SOP Class

Print AE supports the following DIMSE operations for the Image Box SOP Class:

N-SET

Details of the supported attributes and status handling behavior are described in the following subsections.

4.3.1.1.4.7.1 Image Box SOP Class Operations (N-SET)

The attributes supplied in an N-SET Request are listed in the Table below:

Table 71

Image Box SOP Class N-SET Request Attributes

Attribute Name	Tag	VR	Value	Presence of Value	Source
Image Position	(2020,0010)	US	[1, num_image1]	ALWAYS	AUTO
Basic Grayscale Image Sequence	(2020,0111)	SQ		If the service is configured as MONOCHROME2	AUTO
>Samples Per Pixel	(0028,0002)	US	1	ALWAYS	AUTO
>Photometric Interpretation	(0028,0004)	CS	MONOCHROME2	ALWAYS	CONFIG
>Rows	(0028,0010)	US	Depends on film size	ALWAYS	AUTO
>Columns	(0028,0011)	US	Depends on film size	ALWAYS	AUTO

Pixel Aspect Ratio	(0028,0034)	IS	Set to zero length	VNAP	AUTO
>Bits Allocated	(0028,0100)	US	8	ALWAYS	AUTO
>Bits Stored	(0028,0101)	US	8	ALWAYS	AUTO
>High Bit	(0028,0102)	US	7	ALWAYS	AUTO
>Pixel Representation	(0028,0103)	US	0	ALWAYS	AUTO
>Pixel Data	(7FE0,0010)	OB	Pixels of rendered film sheet	ALWAYS	AUTO
Basic Color Image Sequence	(2020,0111)	SQ		If the service is configured as RGB	AUTO
>Samples Per Pixel	(0028,0002)	US	3	ALWAYS	AUTO
>Photometric Interpretation	(0028,0004)	CS	RGB	ALWAYS	CONFIG
>Planar Configuration	(0028,0006)	US	1	ALWAYS	AUTO
>Rows	(0028,0010)	US	Depends on film size	ALWAYS	AUTO
>Columns	(0028,0011)	US	Depends on film size	ALWAYS	AUTO
Pixel Aspect Ratio	(0028,0034)	IS	Set to zero length	VNAP	AUTO
>Bits Allocated	(0028,0100)	US	8	ALWAYS	AUTO
>Bits Stored	(0028,0101)	US	8	ALWAYS	AUTO
>High Bit	(0028,0102)	US	7	ALWAYS	AUTO
>Pixel Representation	(0028,0103)	US	0	ALWAYS	AUTO
>Pixel Data	(7FE0,0010)	OB	Pixels of rendered film sheet	ALWAYS	AUTO

Note 1 If the attribute of Image Display Format is (STANDARD\m, n), num_image is m*n.

The behavior of Print AE when encountering status codes in a N-SET response is summarized in the Table below:

Table 72

Image Box SOP Class N-SET Response Status Handling Behavior

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	Image print is successful, The status

	code is logged and the task success is reported to the user via task management.
B604H	The N-SET operation is considered successful.
B605H	The N-SET operation is considered successful.

4.3.1.1.5 Activity Send Find Request

4.3.1.1.5.1 Description and Sequencing of Activities

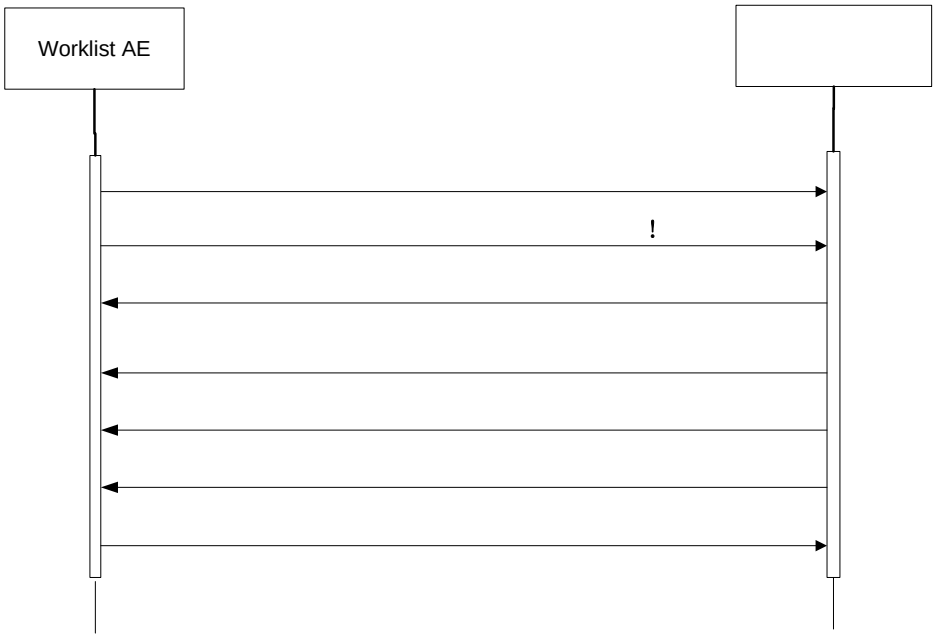

Figure 5

Sequencing of Activity Send FIND Request

A possible sequence of interactions between the Worklist AE and a remote AE (e.g. a system such as a RIS or HIS; or a PACS) is illustrated in the Figure below:

1. The Worklist AE opens an association with the remote AE
2. The Worklist AE sends a C-FIND request to the remote AE containing the Query attributes.
3. The remote AE returns a C-FIND response containing the requested attributes of the first matching Item.
4. The remote AE returns another C-FIND response containing the requested attributes of the second matching Item. And then another one.
5. When the remote AE returns all the C-FIND responses with status Success indicating that no further matching Items exist.
6. The C-Find AE closes the association with the remote AE.

4.3.1.1.5.2 Proposed Presentation Contexts

Table 73

Proposed Presentation Contexts for Worklist AE

			processing.
*	The Association is aborted using A-ABORT and the query is marked as failed. The status meaning is logged and reported to the user if an interactive query. Any additional error information in the Response will be logged.	Any other status code.	The association is aborted using A-ABORT and a notify message is displayed: Some errors happen when query worklist server.

Worklist AE provides Standard Conformance to the Storage Service Class.

Worklist AE will behave as described in the Table 74 in response to the status returned in the C-FIND response command message.

The behavior of Ultrasound System during communication failure is summarized in the Table below.

Table 75

COMMUNICATION FAILURE BEHAVIOR FOR WORKLIST AE

Exception	Behavior
Timeout	The Association is aborted using A-ABORT and the worklist marked as failed. The reason is logged and reported to the user if an interactive query.
Association aborted by the SCP or network layers	The query is marked as failed. The reason is logged and reported to the user if an interactive query.

The Table below provides a description of the Ultrasound system Worklist Request Identifier and specifies the attributes that are copied into the images. Unexpected attributes returned in a C-FIND response are ignored.

Requested return attributes not supported by the SCP are set to have no value. Non-matching responses returned by the SCP due to unsupported optional matching keys are ignored. No attempt is made to filter out possible duplicate entries.

Table 76

Worklist Request Identifier

ATTRIBUTE	VR	ATTRIBUTE NAME	MATCHING KEYS	RETURN KEYS
Module: Patient Identification Module (M)				
(0010,0010)	PN	Patient's Name	configurable	X (DI)
(0010,0020)	LO	Patient ID	configurable	X(DI)
(0010,1000)	LO	Other Patient IDs		X (DI)
Module: Patient Demographic Module (M)				
(0010,0030)	DA	Patient's Birth Date		X(DI)
(0010,0032)	TM	Patient's Birth Time		X(DI)

(0010,0040)	CS	Patient's Sex		X(DI)
(0010,1020)	DS	Patient's Size		X (DI)
(0010,1030)	DS	Patient's Weight		X (DI)
(0010,2160)	SH	Ethnic Group		X (DI)
(0010,4000)	LT	Patient Comments		X (DI)
(0040,3001)	LO	Confidentiality constraint on patient data Description		X (DI)
Module: Patient Medical Module (M)				
(0010,2000)	LO	Medical Alerts		X (DI)
(0010,2110)	LO	Contrast Allergies		X (DI)
(0010,21B0)	US	History		X (DI)
(0010,21C0)	US	Pregnancy Status		X (DI)
(0010,21D0)	DA	Last Menstrual Date		X (DI)
(0038, 0050)	LO	Special Needs		X (DI)
(0038, 0500)	LO	Patient State		X (DI)
Module: Visit Relationship Module (M)				
(0008,1120)	SQ	Referenced Patient Sequence		X (DI)
Module: Visit Identification Module (M)				
(0038,0010)	LO	Admission ID		X (DI)
Module: Visit Status Module (M)				
(0038,0300)	LO	Current Patient Location		X (DI)
Module: Visit Admission Module (M)				
(0008,1080)	LO	Admitting Diagnosis Description		X (DI)
Module: Scheduled Procedure Step Module (M)				
(0040,0100)	SQ	Scheduled Procedure Step Sequence		X (DI)
>(0008,0060)	CS	Modality	Configurable and the default is set to	
>(0032,1070)	LO	Requested Contrast Agent		X (DI)

>(0040,0001)	AE	Scheduled Station AE Title	configurable	X (DI)
>(0040,0002)	DA	Scheduled Procedure Step Start Date	configurable and the default is set to	X(DI)
>(0040,0003)	TM	Scheduled Procedure Step Start Time		X (DI)
>(0040,0004)	DA	Scheduled Procedure Step End Date		X (DI)
>(0040,0005)	TM	Scheduled Procedure Step End Time		X (DI)
>(0040,0006)	PN	Scheduled Performing Physician's Name		X (DI)
>(0040,0007)	LO	Scheduled Procedure Step Description		X(DI)
>(0040,0008)	SQ	Scheduled Protocol Code Sequence		X (DI)

		Sequence		
> (0008,1150)	UI	Referenced SOP Class UID		X (DI)
> (0008,1155)	UI	Referenced SOP Instance UID		X (DI)
(0020,000D)	UI	Study Instance UID		X (DI)
(0032,1060)	LO	Requested Procedure Description		X (DI)
(0032,1064)	SQ	Requested Procedure Code Sequence		X (DI)
> (0008,0100)	SH	Code Value		X (DI)
> (0008,0102)	SH	Coding Scheme Designator		X (DI)
>(0008,0103)	SH	Coding Scheme Version		X (DI)
>(0008,0104)	LO	Code Meaning		X (DI)
(0040,1001)	SH	Requested Procedure ID	configurable	X (DI)
(0040,1003)	SH	Requested Procedure Priority		X (DI)
(0040,1004)	LO	Patient Transport Arrangements		X (DI)
(0040,1400)	LT	Requested Procedure Comments		X (DI)
Module: Imaging Service Request Module (M)				
(0008,0050)	SH	Accession Number	configurable	X (DI)
(0008,0090)	PN	Referring Physician's Name		X (DI)
(0032,1032)	PN	Requesting Physician		X (DI)
(0032,1033)	LO	Requesting Service		X (DI)
(0040,2400)	LT	Imaging Service Request Comments		X (DI)
Module: SOP Common Module (M)				
(0008,0005)	CS	Specific Character Set		X (DI)
Module: Additional Attributes Module (M)				

(0008,0032)	TM	Acquisition Time		X (DI)

The convention used for Matching Keys is:

X - Return Key with zero length for Universal Matching.

DI

Note: The Cancel and End Exam commands are mutually exclusive. They are both represented here for illustration purposes only. Actual workflow uses one or the other for a given exam.

For each exam step transfer, an attempt will be made to transmit it to the selected remote AE. If it fails, it will automatically retry specific times if configured on Preset UI..

4.3.1.1.6.2 Proposed Presentation Contexts

Table 77
Proposed Presentation Contexts for MPPS AE

Presentation Context Table					
Abstract Syntax		**Transfer Syntax**		**Role**	**Extended Negotiation**
Name	**UID**	**Name**	**UID**		
Modality Performed Procedure Step SOP Class	1.2.840.10008.3.1.2.3.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	None
		Explicit VR Big Endian			

			the Response identifying the attributes out of range will be logged (i.e. Elements in the Modification List/Attribute List)
*	*	Any other status code.	The Association is aborted using A-ABORT and the MPPS is marked as failed. The status meaning is logged.

The behavior of MPPS AE during communication failure is summarized in the Table below:

Table 79

MPPS COMMUNICATION FAILURE BEHAVIOR

Exception	Behavior
Timeout	The Association is aborted using A-ABORT and MPPS marked as failed. The reason is logged.
Association aborted by the SCP or network layers	The MPPS is marked as failed. The reason is logged.

Table below provides a description of the MPPS N-CREATE and N-SET request identifiers sent by ultrasound system. Empty cells in the N-CREATE and N-SET columns indicate

Table 80

MPPS N-CREATE / N-SET Request Identifier

Attribute Name	Tag	Req. Type N-CREATE	Req. Type N-SET
Module: Performed Procedure Step Relationship Module (M)			
Referenced Patient Sequence	(0008,1120)	2 (Default is set to null)	Not allowed
	(0010,0010)	2	Not allowed
Patient ID	(0010,0020)	2	Not allowed
	(0010,0030)	2	Not allowed
	(0010,0040)	2	Not allowed
Scheduled Step Attribute Sequence	(0040,0270)	1	

>Requested Procedure Description	(0032,1060)	2	Not allowed
>Scheduled Procedure Step Description	(0040,0007)	2	Not allowed
>Scheduled Protocol Code Sequence	(0040,0008)	2	Not allowed
>Scheduled Procedure Step ID	(0040,0009)	2	Not allowed
>Requested Procedure ID	(0040,1001)	2	Not allowed
Module: Image Acquisition Results Module (M)			
Modality	(0008,0060)	1	Not allowed
Study ID	(0020,0010)	2	Not allowed
Performed Protocol Code Sequence	(0040,0260)	2 (Default is set to null)	3
Performed Series Sequence	(0040,0340)	2	3
>Retrieve AE Title	(0008,0054)	2 (Default is set to null)	2
>Series Description	(0008,103E)	2 (Default is set to null)	2
	(0008,1050)	2	2
	(0008,1070)	2	2
>Referenced Image Sequence	(0008,1140)	2	2
>Protocol Name	(0018,1030)	1	1
>Series Instance UID	(0020,000E)	1	1
>Referenced Non-Image Composite SOP Instance Sequence	(0040,0220)	2 (Default is set to null)	2
Module: Billing And Material Management Code Module (M)			
Billing Procedure Step Sequence	(0040,0320)	3	3
Film Consumption Sequence	(0040,0321)	3	3
Billing Supplies and Devices Sequence	(0040,0324)	3	3
Module: Performed Procedure Step Information Module (M)			
Procedure Code Sequence	(0008,1032)	2 (Default is set to null)	3
Performed Station AE Title	(0040,0241)	1	Not allowed
Performed Station Name	(0040,0242)	2 (Default is set to null)	Not allowed
Performed Location	(0040,0243)	2 (Default is set to null)	Not allowed
Performed Procedure Step Start	(0040,0244)	1	Not allowed

Date			
Performed Procedure Step Start Time	(0040,0245)	1	Not allowed
Performed Procedure Step End Date	(0040,0250)	2 (Default is set to null)	3
Performed Procedure Step End Time	(0040,0251)	2	3
Performed Procedure Step Status	(0040,0252)	1	3
Performed Procedure Step ID	(0040,0253)	1	Not allowed
Performed Procedure Step Description	(0040,0254)	2 (Default is set to null)	3
Performed Procedure Type Description	(0040,0255)	2 (Default is set to null)	3
Performed Procedure Step Discontinuation Reason Code Sequence	(0040,0281)	3	3
Module: SOP Common Module (M)			
Specific Character Set	(0008,0005)	1C (Required if an extended or replacement character set is used)	Not allowed

4.3.1.1.7 Activity Query/Retrieve from Remote AE

4.3.1.1.7.1 Description and Sequencing of Activities for SCU

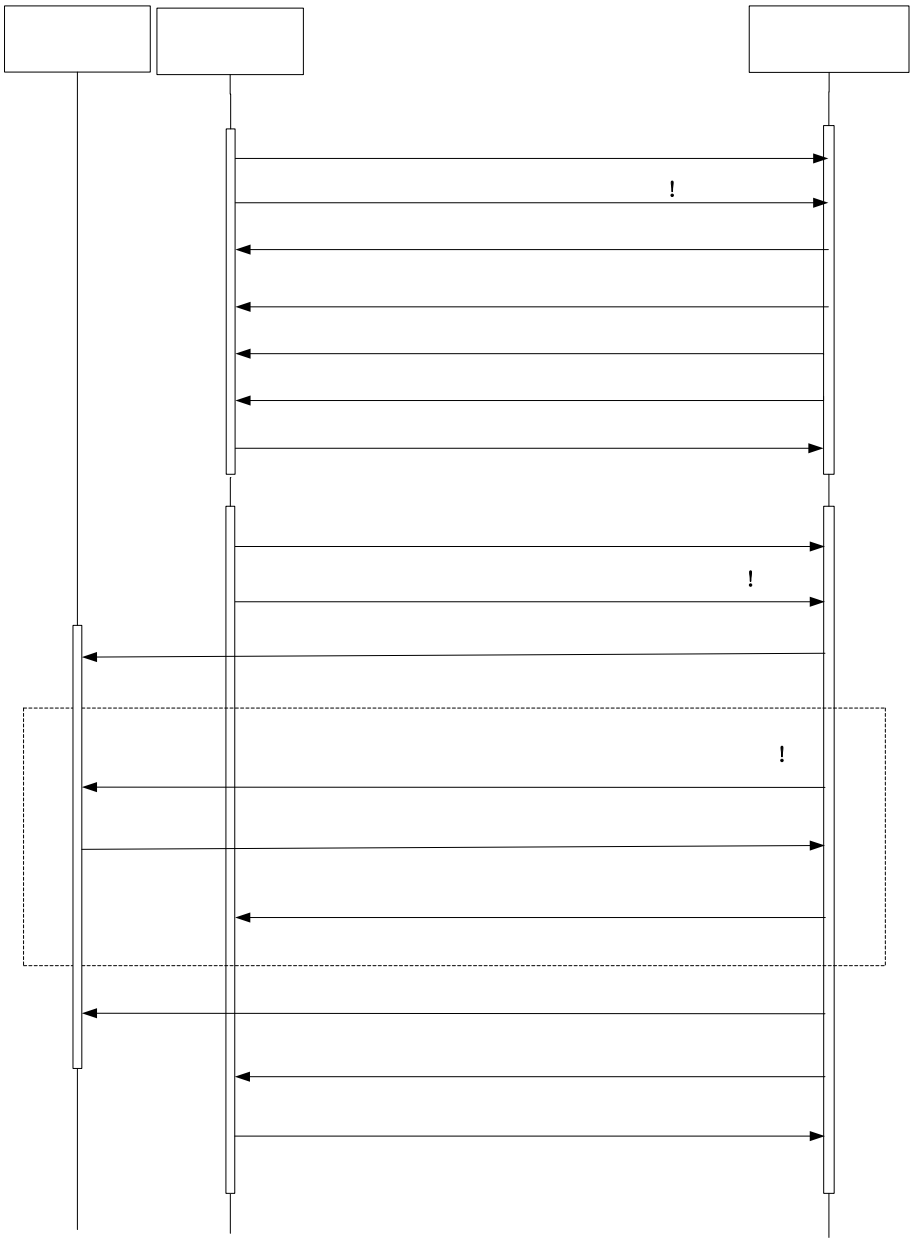

Figure 7

Sequencing of Activity Query/Retrieve progress

The associated Real-World activity is a C-Find request initiated by the user. The user specifies some attributes the system should use to query its database. If the query user successfully establishes an association to the remote AE, it will send a C-Find request (according to the query model) and will then return the results to the application.

The C-MOVE-RQs are used to retrieve the referenced instances. The Query/Retrieve AE supports the Study Root Information Model.

	final Identifier is supplied			the UI
Pending	Matches are continuing - Current Match is supplied and any Optional Keys were supported in the same manner as Required Keys	FF00	Identifier	/
	Matches are continuing - Warning that one or more Optional Keys were not supported for existence and/or matching for this identifier	FF01	Identifier	/

The ultrasound system supports the following query levels:

Study

The Query/Retrieve AE interprets following status codes

Table 83

C-Move Response Status Handling Behavior

Service Status	Meaning	Protocol Codes	Related Fields	Behavior (as SCU)
Refused	Refused Out of Resources	A700	(0000,0902)	The association is aborted using A-ABORT and a notify message is displayed: The remote server error.
Failed	Identifier does not match SOP Class	A900	(0000,0901) (0000,0902)	
	Unable to process	CXXX	(0000,0901) (0000,0902)	
Canceling	Matching terminated due to Cancel request	FE00	None	
Success	Matching is complete - No final Identifier is supplied	0000	None	Image retrieve is successful, Patient lists show on the UI
Pending	Matches are continuing - Current Match is supplied and any Optional Keys were supported in the same manner as Required Keys	FF00	Identifier	/
	Matches are continuing - Warning that one or more Optional Keys were not supported for existence and/or matching for this identifier	FF01	Identifier	/

4.3.1.1.7.3.2 Study Root Query/Retrieve Attributes

4.3.1.1.7.3.3 Supported Matching

(0010,2160)	SH	O	Ethnic Group		N
(0010,2180)	SH	O	Occupation		N
(0010,21B0)	LT	O	Additional Patient History		N
(0010,4000)	LT	O	Patient Comments		N
(0020,1070)	IS	O	Other Study Numbers		N
(0020,1200)	IS	O	Number of Patient Related Studies		N
(0020,1202)	IS	O	Number of Patient Related Series		N
(0020,1204)	IS	O	Number of Patient Related Instances		N
(0020,1206)	IS	O	Number of Study Related Series		N
(0020,1208)	IS	O	Number of Study Related Instances		N
(4008,010C)	PN	O	Interpretation Author		N
Module: Additional Attributes Module (O)					
(0008,0062)	UN	O	SOP Classes in Study		N

4.3.1.1.7.3.5 Series Level Attributes

Table 85

SERIES LEVEL ATTRIBUTES

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE	MATCHINGKEYS
Module: Study Root Information Model (M)					
(0020,000D)	UI	U	Study Instance UID		S
(0020,000E)	UI	U	Series Instance UID		N
(0008,0060)	CS	R	Modality		N
(0020,0011)	IS	R	Series Number		N
(0020,1209)	IS	O	Number of Series Related Instances		N
Module: Additional Attributes Module (O)					
(0008,0021)	DA	O	Series Date		N
(0008,0031)	TM	O	Series Time		N

4.3.1.1.7.3.6 Composite Object Instance Level

Table 86

COMPOSITE OBJECT INSTANCE LEVEL ATTRIBUTES

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE	MATCHINGKEYS
Module: Study Root Information Model (M)					
(0020,000D)	UI	U	Study Instance UID		S
(0020,000E)	UI	U	Series Instance UID		

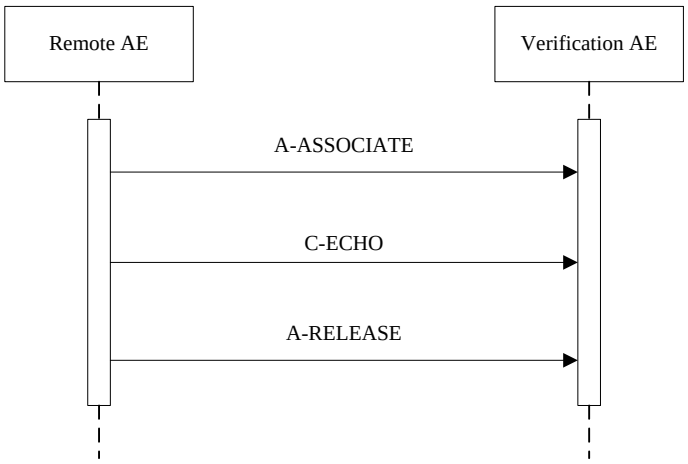

Figure 8
Sequencing of Activity Receive Echo Request

4.3.1.2.1.2 Accepted Presentation Contexts

It will accept Presentation Contexts as shown in the following table:

Table 87
Proposed Presentation Contexts for Activity Verification

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Verification	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None

4.3.1.2.1.3 SOP Specific Conformance

The Application conforms to the definition of a Verification SCP in accordance with the DICOM Standard.

4.3.1.2.2 Activity Receive Storage

4.3.1.2.2.1 Description and Sequencing of Activities

The system could act as Storage SCP in Query/Retrieve, otherwise couldn't. A possible sequence of interactions between the Storage AE (as SCP) and a remote AE is illustrated in the Figure 7.

4.3.1.2.2.2 Accepted Presentation Contexts

The Storage AE (as SCP) will accept Presentation Contexts as shown in the Table below.

Table 88
Proposed Presentation Contexts for Storage

PROPOSED PRESENTATION CONTEXTS					
Abstract Syntax		**Transfer Syntax**		**Role**	**Ext. Neg.**
Name	**UID**	**Name**	**UID**		
US Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
		JPEG Lossy, Baseline Sequential with Huffman Coding (Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1])	1.2.840.10008.1.2.4.70	SCP	None
		RLE Lossless	1.2.840.10008.1.2.5	SCP	None
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90	SCP	None
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91	SCP	None
US Multiframe Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
		JPEG Lossy, Baseline Sequential with Huffman Coding (Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1])	1.2.840.10008.1.2.4.70	SCP	None
		RLE Lossless	1.2.840.10008.1.2.5	SCP	None
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90	SCP	None
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91	SCP	None
Secondary	1.2.840.100	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None

Capture Image Storage	08.5.1.4.1.1.7	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None

4.4 Network Interface

4.4.1 Supported Communications Stacks

Modality DICOM AEs provide DICOM 3.0 TCP/IP Network Communication Support as defined in Part 8 of the DICOM Standard.

4.4.2 TCP/IP Stack

Modality DICOM AEs inherit their TCP/IP stack from the Windows Operating System upon which they execute.

4.4.3 Physical Network Interface

Modality supports a single

4.5.2 Configurable Parameters

Localhost DICOM Service Property(Including SCU and SCP):

- AE Title
- Port
- PDU

Server Setting:

- Device
- IP address

Storage:

- Device, Service name, AE Title and Port.
- Timeout.
- Maximum retries. (default value is 3)
- Interval Time (In this version, this parameter is not usable.)
- Compression Mode, Compression Ratio.
- Color Mode (Color, Mixed, or Gray).
- Cine Zoom Mode (original, 640*480, 800*600 or 1024*768)
- Allow Multiframe(Enable or not)
- Max Framerate(options(25, 30, 35, full), or other inputed valid value)
- 3D/4D(Normal, Rawdata or Volume)
- SR Storage Option(Attach SR When Store Images， Only Store SR，and Not Store SR")
-

8_5INX11IN

10INX12IN

10INX14IN

11INX14IN

11INX17IN

14INX14IN

14INX17IN

24CMX24CM

24CMX30CM

A4

A3

- Copies:1-100
- Max Density: 0-65535
- Min Density:0-65535
- Settings: RGB or MONOCHROME2
- Display Format:
  - ✧ PORTRAIT:

STANDARD\1,1

STANDARD\1,2

STANDARD\1,3

STANDARD\2,1

STANDARD\2,2

STANDARD\2,3

STANDARD\2,4

STANDARD\3,3

STANDARD\3,4

STANDARD\3,5

STANDARD\3,6

STANDARD\4,4

STANDARD\4,5

STANDARD\4,6

STANDARD\4,7

STANDARD\4,8

STANDARD\5,5

STANDARD\5,6

STANDARD\5,7

STANDARD\5,8

STANDARD\6,6
STANDARD\6,7
STANDARD\6,8
STANDARD\6,9
STANDARD\6,10
STANDARD\7,7
STANDARD\7,8
STANDARD\7,9
STANDARD\7,10
STANDARD\8,8
STANDARD\8,9
STANDARD\8,10

- LANDSCAPE:

STANDARD\1,1
STANDARD\1,1
STANDARD\2,1
STANDARD\3,1
STANDARD\1,2
STANDARD\2,2
STANDARD\3,2
STANDARD\4,2
STANDARD\3,3
STANDARD\4,3
STANDARD\5,3
STANDARD\6,3
STANDARD\4,4
STANDARD\5,4
STANDARD\6,4
STANDARD\7,4
STANDARD\8,4
STANDARD\5,5
STANDARD\6,5
STANDARD\7,5
STANDARD\8, 5
STANDARD\6,6
STANDARD\7,6
STANDARD\8,6

STANDARD\9,6
STANDARD\10,6
STANDARD\7,7
STANDARD\8,7
STANDARD\9,7
STANDARD\10,7
STANDARD\8,8
STANDARD\9,8
STANDARD\10,8

- Destination: MAGAZINE or PROCESSOR
- Film Orientation: LANDSCAPE or PORTRAIT
- Priority: HIGH, MED, or LOW
- Configuration Info
- Magnification Type: NONE, CUBIC, REPLICATE, or BILINEAR
- Trim: Yes/Not
- Default Status (Y/N)

WORKLIST:

- Device, Service name, AE Title and Port .
- Timeout.
- Maximum retries, Interval Time (In this version, these two parameters are not usable.)
- Default Status (Y/N)

MPPS:

- Device, Service name, AE Title and Port.
- Timeout,
- Maximum retries (default value is 3)
- Interval Time (In this version, this parameter is not usable.)
- Default Status (Y/N)

Storage Commitment:

- Device, Service name, AE Title and Port.
- Timeout.
- Maximum retries, Interval Time (In this version, these two parameters are not usable.)
- Associated Storage Service
- Default Status (Not available)

Query/Retrieve

- Device, Service name, AE Title and Port.
- Timeout.
- Maximum retries, Interval Time (In this version, these two parameters are not usable.)
- Default Status (Y/N)

5 Media Storage

5.1 Implementation Model

5.1.1 Application Data Flow

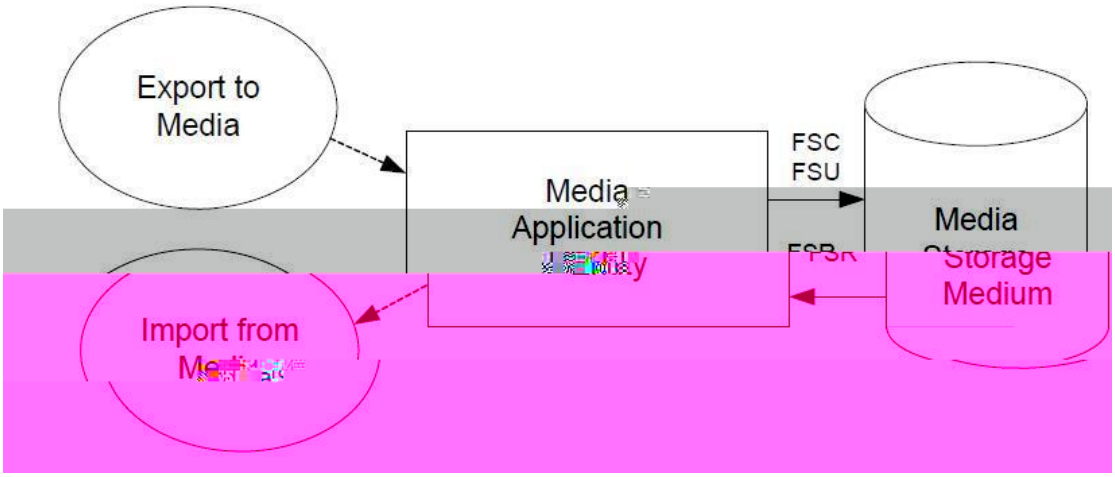

Figure 9

Application Data Flow Diagram for Media Storage

The Media Application Entity exports Images and Structured Reports to a removable storage medium. It is associated with the local real- Backup configured export selection parameters for selected Structured Reports).

5.1.2 Funct

5.1.2.1 Functional Definition of Media Application Entity

images to the Media Application Entity. The contents of each export job will be written to the selected media destination. The size of the selected media is used to determine and display the number of media required for the export. When a device is filled to capacity, the system will prompt the user for addition media and continue.

5.1.3 Sequencing of Real-World Activities

At least one image must exist and be selected before the Media Application Entity can be invoked. The operator can insert new media at any time. The Media Application Entity will wait indefinitely for media to be inserted before starting to write to the device.

5.1.4 File Meta Information Options

The implementation information written to the File Meta Header in each file is:

Table 90
DICOM Implementation Class and Version for Media Storage

Implementation Class UID	1.2.156.112536.1.2153.0.1.0.1
Implementation Version Name	MINDRAY_V1.0

5.2 AE Specifications

5.2.1 Media Application Entity Specification

The Media Application Entity provides standard conformance to the Media Storage Service Class. The Application Profiles and roles are listed below: The available physical media is CD-R, CD-RW, DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-RAM, and USB devices.

Table 91
Application Profiles, Activities and Roles

Application Profiles Supported	Real World Activity	Role
STD-GEN-USB-JPEG STD-US-SC-SF&MF-CDR STD-US-SC-SF&MF-DVD STD-US-SC-SF&MF-DVD-RAM	Export Exam	FSC/FSU[1]
	Read Exam	FSR
	Import Exam	FSR

Note: 1 functionality requires DVD+RW, DVD-RW, or USB

5.2.1.1 File Meta Information for the Application Entity

The File Meta Header does not include the Source Application Entity Title.

5.2.1.2 Real-World Activities

5.2.1.2.1 Activity-FSC-Export exams

When system user exports exams, images, SR, or Encapsulated PDF to a media upon which no DICOM data resides, it creates a DICOM file set and writes this DICOM File Set to this media.

The Media Application Entity acts as an FSC using the interchange option when requested to export SOP Instances from the local database to media upon which no DICOM data resides.

5.2.1.2.2 Activity-FSR-Import exams

When system user presents the directory of the media, presses Restore button and the selected exams are transferred from the media to the system for review. Objects transferred to the system retain their original SOP Instance UIDs.

The Media Application Entity acts as an FSR using the interchange option when requested to import SOP Instances from media to the local database.

5.2.1.2.3 Activity-FSU-Export exams

already contains data. The DICOMDIR is updated allowing access to original and new data.

The Media Application Entity acts as an FSU using the interchange option when requested to export SOP Instances from the local database to media upon which DICOM data already resides.

5.2.1.2.3.1 Media Storage Application Profiles

See Table 91 for supported Application Profiles.

5.2.1.2.3.1.1 Options

The Media Application Entity supports the SOP Classes and Transfer Syntaxes listed in the Table below:

Table 92
IODs, SOP Classes and Transfer Syntaxes

Information Object Definition	SOP Class UID	Transfer Syntax	Transfer Syntax UID
DICOM Media Storage Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian	1.2.840.10008.1.2.1
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Explicit VR Little Endian	1.2.840.10008.1.2.1
		JPEG Lossy, Baseline Sequential with Huffman Coding (Process 1)	1.2.840.10008.1.2.4.50
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1])	1.2.840.10008.1.2.4.70
		RLE Lossless	1.2.840.10008.1.2.5

		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Explicit VR Little Endian	1.2.840.10008.1.2.1
		JPEG Lossy, Baseline Sequential with Huffman Coding (Process 1)	1.2.840.10008.1.2.4.50
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1])	1.2.840.10008.1.2.4.70
		RLE Lossless	1.2.840.10008.1.2.5
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Explicit VR Little Endian	1.2.840.10008.1.2.1
		JPEG Lossy, Baseline Sequential with Huffman Coding (Process 1)	1.2.840.10008.1.2.4.50
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1])	1.2.840.10008.1.2.4.70
		RLE Lossless	1.2.840.10008.1.2.5
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91

Comprehensive SR Storage	1.2.840.10008.5.1.4.1.1.88.33	Explicit VR Little Endian	1.2.840.10008.1.2.1
Encapsulated PDF Storage	1.2.840.10008.5.1.4.1.1.104.1	Explicit VR Little Endian	1.2.840.10008.1.2.1
Enhanced US Volume Storage	1.2.840.10008.5.1.4.1.1.6.2	Explicit VR Little Endian	1.2.840.10008.1.2.1
Raw Data Storage	1.2.840.10008.5.1.4.1.1.66	Explicit VR Little Endian	1.2.840.10008.1.2.1

5.3 Media Storage Application Profile

See Table 91 for supported Application Profiles.

5.3.1 DICOMDIR Attributes

The DICOMDIR file will contain the following attributes.

Table 93

Common Directory Information Module Attributes

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0004,1130)	CS	2	File-set ID	AUTO
(0004,1200)	UL	1	Offset of the First Directory Record of the Root Directory Entity	AUTO
(0004,1202)	UL	1	Offset of the Last Directory Record of the Root Directory Entity	AUTO
(0004,1212)	US	1	File-set Consistency Flag	0xFFFF
(0004,1220)	SQ	2	Directory Record Sequence	
>(0004,1400)	UL	1	Offset of the Next Directory Record	AUTO
>(0004,1410)	US	1	Record In-use Flag	0xFFFF
>(0004,1420)	UL	1	Offset of Referenced Lower-Level Directory Entity	AUTO
>(0004,1142)	CS	2	Specific Character Set of File-set Descriptor File	ISO_IR 100

Table 94

Patient Directory Record

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0004,1430)	CS	1	Directory Record Type	PATIENT
(0010,0020)	LO	1	Patient ID	MWL/USER
(0010,0010)	PN	2	Patient's Name	MWL/USER
(0010,0030)	DA	3	Patient's Birth Date	MWL/USER
(0010,0040)	CS	3	Patient's Sex	MWL/USER
(0010,1000)	LO	3	Other Patient IDs	MWL/USER

Table 95

Study Directory Record

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0004,1430)	CS	1	Directory Record Type	STUDY
(0008,0020)	DA	1	Study Date	AUTO
(0008,0030)	TM	1	Study Time	AUTO
(0020,0010)	SH	2	Study ID	MWL
(0020,000D)	UI	1C	Study Instance UID	AUTO
(0008,0050)	SH	2	Accession Number	MWL/USER
(0008,1030)	LO	2	Study Description	If it is a scheduled exam, the value is mapped from Scheduled Procedure Step Description; If not, USER
(0008,0090)	PN		Referring Physician's Name	MWL/USER

Table 96

Series Directory Record

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0004,1430)	CS	1	Directory Record Type	SERIES
(0008,0060)	CS	1	Modality	US
(0020,000E)	UI	1	Series Instance UID	AUTO
(0020,0011)	IS	1	Series Number	AUTO

(0008,0021)	DA	3	Series Date	AUTO
(0008,0031)	TM	3	Series Time	AUTO
(0008,103e)	LO		Series Description	If it is a scheduled exam, the value is mapped from Scheduled Procedure Step Description; If not, same as the value of Study Description
(0008,1050)	PN		Performing Physician's Name	MWL/USER

Table 97

Image Directory Record

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0004,1430)	CS	1	Directory Record Type	IMAGE
(0004,1500)	CS	1C	Referenced File ID	AUTO
(0004,1510)	UI	1C	Referenced SOP Class UID in File	AUTO
(0004,1511)	UI	1C	Referenced SOP Instance UID in File	AUTO
(0004,1512)	UI	1C	Referenced Transfer Syntax UID in File	AUTO
(0020,0013)	IS	1	Instance Number	AUTO
(0028,0008)	IS	3	Number of Frames	AUTO(Only used for mutil-frame image)

5.4 Augmented and Private Application Profiles

No augmented/private profile is supported.

5.5 Media Configuration

None.

6 SUPPORT OF CHARACTER SETS

In addition to the default character repertoire, the Defined Terms for Specific Character Set in Table 98 are supported:

Table 98
Supported Specific Character Set Defined Terms

Character Set Description	Defined Term	System Language
ISO 8859-1	ISO_IR 100	English, French, German, Italian, Portuguese, Spanish, Finnish, Danish, Icelandic, Norwegian, Swedish
ISO 8859-5	ISO_IR 144	Russian
ISO-8859-2	ISO_IR 101	Polish, Czech, Serbian
Chinese	GB18030	Chinese

If the system language is configured for one of above languages, the corresponding Character Set will be used automatically. Whether or not characters are displayed correctly depends on the operating system. For example, if the system is configured for Polish, the characters of Polish could display correctly.

7 SECURITY

7.1 Security Profiles

Resona7 supports secure DICOM communication in conformance with the Basic TLS Secure Transport Connection Profile and the AES TLS Secure Transport Connection Profile.At default configuration,the TLS option is deactivated.

Basic TLS Secure Transport Connection Profile and the AES TLS Secure Transport Connection Profile are supported using Transport Layer Security Version 1.2 protocol with the following features:

Supported TLS Feature	**Mechanism**
Entity Authentication	RS A based certificates
Exchange of Master Secrets	RSA
Data Integrity	SHA
Privacy (Cyphersuite Options)	

7.2 Association level security

None supported.

Any Calling AE Titles and/or IP addresses may open an Association.

7.3 Application level security

DICOM TLS.

8 ANNEXES

8.1 IOD contents

8.1.1 Created SOP Instances

None.

8.1.2

No SOP Class specific fields are required.

The local database makes use of the conventional identification attributes to distinguish patients, studies, series and instances. In particular, if two patients have the same value for Patient ID, and Patient s Sex

8.5 Standard extended/specialized/private sop Classes

None.

8.6 Private Transfer Syntaxes

None.

A.2. TID(1008) Subject Context, Fetus

NO	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			PNAME	EV (121036,DCM,			
2			UIDREF	EV (121028,DCM,			
3			TEXT	EV (121030,DCM,			
4			TEXT	EV (11951-1,LN,			
5			NUM	EV (11878-6,LN, "Number of			

A.3. 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.

NO	**NL**	**Relation with Parent**	**Value Type**	**Concept Name**	**Used in MODALITY**	**Condition**	**Value Set Constraint**
1			CONTAINER	EV (125000, -GYN Ultrasound Procedure			
2	>	HAS CONCEPT MOD	INCLUDE	DTID (1204) Language of Content Item and Descendants			
3	>	HAS OBS CONTEXT	INCLUDE	DTID (1001) Observation Context			
4	>	CONTAINS	INCLUDE	DTID (5001) Patient Characteristics			
5	>	CONTAINS	CONTAINER	DT (111028,			

6	>>	CONTAINS	IMAGE	No purpose of reference			
7	>	CONTAINS	INCLUDE	DTID (5002) OB-GYN Procedure Summary Section			
8	>	CONTAINS	INCLUDE	DTID (5004) Fetal Biometry Ratio Section			
9	>	CONTAINS	INCLUDE	DTID (5005) Fetal Biometry Section			
10	>	CONTAINS	INCLUDE	DTID (5006) Long Bones Section			
11	>	CONTAINS	INCLUDE	DTID (5007) Fetal Cranium Section			
12	>	CONTAINS	INCLUDE	DTID (5009) Fetal Biophysical Profile Section			
13	>	CONTAINS	INCLUDE	DTID (5011) Early Gestation Section			
14	>	CONTAINS	INCLUDE	DTID (5010) Amniotic Sac Section			
15	>	CONTAINS	INCLUDE	DTID (5015) Pelvis and Uterus Section			
16	>	CONTAINS	INCLUDE	DTID (5012) Ovaries Section			
17	>	CONTAINS	INCLUDE	DTID (5013) Follicles Section			$Laterality = EV (G- $Number = EV (11879- of follicles in left
18	>	CONTAINS	INCLUDE	DTID (5013) Follicles Section			$Laterality = EV (G- $Number = EV (11880- of follicles in right

19	>	CONTAINS	INCLUDE	DTID (5013_1) Follicles Section			$Laterality = EV (G- $Number = EV (11879- of smart follicles in left
20	>	CONTAINS	INCLUDE	DTID (5013_1) Follicles Section			$Laterality = EV (G- Right $Number = EV (11879-4, LN, of smart follicles in right
21	>	CONTAINS	CONTAINER	EV (121070,			
22	>>	HAS CONCEPT MOD	CODE	EV (G-C0E3,			EV (T-F6800, SRT, !
23	>>	CONTAINS	INCLUDE	DTID (5025) OB-GYN Fetal Vascular Measurement Group			$AnatomyGroup = DCID (1214ng 19(I)34(

A.4. TID (SELFTMP-1) Fetal Cardiac Measurement Group

This is a private template referenced by TID (5000).

NO	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV(T0001,MRUS,Fetel Cardiac)			
2	>	HAS OBS CONTEXT	INCLUDE	DTID (1008) Subject Context, Fetus			
3	>	CONTAINS	INCLUDE	DTID (SELFTMP-2) Fetal ZSCORE			$MeasType = DCID (12119) Vascular Ultrasound Property $Derivation = DCID (3627) Measurement Type

A.5. TID (SELFTMP-2) Fetal ZScore

This is a private template referenced by TID (5000).

NO	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1		CONTAINS	INCLUDE	DTID (300) Measurement			
2		CONTAINS	NUM	EV (C12017-1, MRUS, -Score by Femur			calculated by $MeasType and Femur Length
3		CONTAINS	NUM	EV (C12017-2, MRUS, -Score by Biparietal			calculated by $MeasType and Biparietal Diameter
4		CONTAINS	NUM	EV (C12017-3, MRUS, -Score by Clinical			calculated by $MeasType and Clinical Gestational Age

A.6. TID(SELFTMP-PelvicFloor) Pelvic Floor Section

This is a private template referenced by TID (5000)

NO	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (121070, DCM,			

12	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-06, Neck Symphyseal Distance (Valsava)
13	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-05, MRUS,
14	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-07, MRUS, trovesical Angle
15	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-08, MRUS, (Valsava
16	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-09,)
17	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-10, Tilt Angle (Valsava
18	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-06, MRUS,
19	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-11, MRUS,
20	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-12, MRUS, (Valsava

21	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-13, MRUS, □
22	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-14, MRUS, (Valsava
23	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-15, MRUS, Bladder Post Wall - Symphysis Publis □
24	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-16, MRUS, Post Wall - Symphysis Publis !
25	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-17, MRUS, Cervix - Symphysis Publis □
26	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-18, MRUS, Cervix - Symphysis Publis !

28	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-20, MRUS, □ Ampulla - Symphysis Publis !
29	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-21, □ □
30	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-22, □ □
31	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-23, □
32	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-24, □ □
33	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-25, □ l Angle (Valsava
34	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-26, □ Angle
35	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-07, MRUS,
36	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-08, MRUS,

44	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-34, Hiatus Circumference
45	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-35, Hiatus Area (Valsava
46	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-36, Hiatus Circumference (Valsava

51	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-41, □ Ani Thickness
52	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-42, □ □
53	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-43, □ Ani Angle (Valsava
54	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-44, □ or Ani Angle
55	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-48, □
56	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-49, □
57	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-50, □
58	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-51, □
59	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-52, □

60	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-53,
61	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-54,
62	>	CONTAINS	INCLUDE	EV (M99901, MRUS Levator Urethra Gap			$AnatomyGroup = EV (M99901, MRUS Levator Urethra Gap $SectionLaterality = DCID (244) Laterality
63	>>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-45, MRUS Urethra Gap
64	>>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-46, Urethra Gap (Valsava
65	>>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-47, Urethra Gap
66	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-55, Neck Symphyseal
67	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-56, Bladder Descent1

68	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-57, MRUS, □
69	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-58, MRUS, □
70	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-59, MRUS, □ □
71	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-60, □ □
72	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-61, □ Neck Symphyseal Distance1 (Valsava
73	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-62, □ Bladder Descent1 (Valsava
74	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-63, MRUS, Angle1 (Valsava
75	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-64, MRUS, Pubovesical Angle1 (Valsava

76	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-65, MRUS, □ Angle1 (Valsava
77	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-66, □ Tilt Angle1 (Valsava
78	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-67, MRU Neck Symphyseal □
79	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-68, □ Bladder Descent2 □
80	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-69, MRUS, ourethral □
81	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-70, MRUS, □
82	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-71, MRUS, □ □
83	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-72, □ □

84	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-73, □ Neck Symphyseal Distance2 (Valsava
85	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-74, □ Bladder Descent2 (Valsava
86	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-75, MRUS, Angle2 (Valsava
87	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-76, MRUS, Pubovesical Angle2 (Valsava
88	>	CONTAINS	INCLUDE	DTID (300)			

92	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-81, MRUS, □
93	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-82, MRUS, □
94	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-83, MRUS, □ □
95	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-84, □ Tilt A □
96	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-85, □ Neck Symphyseal Distance3 (Valsava
97	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-86, □ Bladder Descent3 (Valsava
98	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-87, MRUS, Angle3 (Valsava
99	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-88, MRUS, Pubovesical Angle3 (Valsava

100	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-89, MRUS, □ Angle3 (Valsava
101	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-90, □ Tilt Angle3 (Valsava
102	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-91, □ Urethra Gap1 □
103	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-92, □ Urethra Gap1 !
104	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-93, □ Urethra Gap1
105	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-94, MRUS, Levator Urethra Gap2 □
106	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-95, □ Urethra Gap2 !
107	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-96, □ Urethra Gap2

108	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-09, MRUS,
109	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-10, MRUS,
110	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-11, MRUS, l Rotation
111	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-12, MRUS,
112	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-13, MRUS, Angle3 (calc)
113	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-14, MRUS,

A.7. TID (1001) OBSERVATION CONTEXT

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

NO	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1	>	HAS OBS CONTEXT	CODE	EV (121005,DCM,			(121006,DCM,
2	>	HAS OBS CONTEXT	PNAME	EV (121008,DCM, on Observer			Operator from Info
3	>	HAS OBS CONTEXT	TEXT	EV (121009,DCM,			Institution Name (0008,0080) of the General Equipment Module

4	>	HAS OBS CONTEXT	CODE	EV (121010,DCM, Role in the			(121093, DCM, "Sonographer")
5	>	HAS OBS CONTEXT	CODE	EV (121024, DCM,			(121025, DCM,
6	>	HAS OBS CONTEXT	PNAME	EV (121029,DCM,			Name (0010,0010) in Patient Module
7	>	HAS OBS CONTEXT	DATE	EV (121031,DCM,			Birth Date (0010,0030) in Patient Module
8	>	HAS OBS CONTEXT	CODE	EV (121032,DCM,			value equivalent to (0010,0040) in Patient Module
9	>	HAS OBS CONTEXT	NUM	EV (121033,DCM,			Age (0010,1010) in Patient Study Module

A.8. TID (5001)

8	>	CONTAINS	NUM	EV (33065-4, LN,			from info(Ectopic)

A.9. TID (5002) OB-GYN Procedure Summary

NO	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121111, DCM,			
2	>	CONTAINS	DATE	11778-8, LN, "EDD"			from info
3	>	CONTAINS	DATE	(11779-6, LN, "EDD from LMP")			from info

18	>	CONTAINS	TEXT	(I12101-04, MRUS, "CPT4 Description

37	>	CONTAINS	NUM	(I12101-18,MRUS,Caesarean Section)			from info
38	>	CONTAINS	INCLUDE	FINDING_7			
39	>	CONTAINS	INCLUDE	BTID (5003) OB-GYN Fetus Summary			

A.10. TID (5003) OB-GYN Fetus Summary

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (125008, DCM,			
2	>	HAS OBS CONTEXT	TEXT	EV (11951-1,LN,"Fetus			
3	>	HAS OBS CONTEXT	NUM	EV (11878-6,LN, "Number of			
4	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (18185-9, LN, "Gestational Age")
5	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (11888-5, LN, " Composite Ultrasound Age")
6	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (11885-1, LN, "Gestational Age
7	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (11727-5, LN, "Estimated
8	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (11767-1, LN, "EFW percentile rank")
9	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (11948-7, LN, " Fetal Heart Rate")

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
10	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (C12019-01, MRUS, "Gestational Age by IVF")
11	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (I12019-01, MRUS, "GA of Previous Exam")
12	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (C12019-02, MRUS, "Gestational Age by PRV")
13	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (C12019-03, MRUS, "Gestational Age by EDD")
14	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (C12019-4, MRUS, "Gestational Age by EFW")
15	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (C12019-4, MRUS, "Gestational Age by mean Gestational Sac Diameter")
16	>	CONTAINS	INCLUDE	FINDING_1			
17	>	CONTAINS	INCLUDE	FINDING_2			
18	>	CONTAINS	INCLUDE	FINDING_3			
19	>	CONTAINS	INCLUDE	FINDING_4			
20	>	CONTAINS	INCLUDE	FINDING_5			
21	>	CONTAINS	INCLUDE	FINDING_6			

A.11. TID (FINDING_1) Fetal Description

This is a private template referenced by TID (5003).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1		CONTAINS	CONTAINER	(FG12019-01,MRUS,"Fetal Description")			
2	>	CONTAINS	TEXT	(FG12018-02,MRUS,"Fetal Lie")			
3	>	CONTAINS	TEXT	(FG7455-01,MRUS,"Gender")			
4	>	CONTAINS	TEXT	(FG7160-01,MRUS,"3 Vessel Cord")			
5	>	CONTAINS	TEXT	(T-D1200,SNM3,"Face")			
6	>	CONTAINS	TEXT	(FG4-01,MRUS,"Nose Lips")			
7	>	CONTAINS	TEXT	(FG12011-01,MRUS,"Cord insertion")			
8	>	CONTAINS	TEXT	(T-57000,SNM3,"Stomach")			
9	>	CONTAINS	CONTAINER	(T-71000,SRT,"Kidney")			
10	>>	CONTAINS	TEXT	(G-A100,SNM3,"Left")			
11	>>	CONTAINS	TEXT	(G-A101,SNM3,"Right")			
12	>	CONTAINS	TEXT	(T-74000,SRT,"Bladder")			
13	>	CONTAINS	TEXT	(T- □			
14	>	CONTAINS	TEXT	(T-62000,SRT,"Liver")			
15	>	CONTAINS	TEXT	(T-D3400,SRT," Diaphragm ")			
16	>	CONTAINS	TEXT	(FG4031-02,MRUS,"Fetal Bowel")			
	>	CONTAINS	TEXT	FG12007-05,MRUS, intracranial translucency ！			

A.12. TID (FINDING_2) Fetus Limbs

This is a private template referenced by TID (5003).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1		CONTAINS	CONTAINER	(FG4031-03,MRUS,"Fetus Limbs")			
2	>	CONTAINS	TEXT	(FG4031-04,MRUS,"Upper Extremities")			
3	>	CONTAINS	TEXT	(FG4031-05,MRUS,"Lower Extremities")			

A.13. TID (FINDING_3) Fetal Cardiology

This is a private template referenced by TID (5003).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1		CONTAINS	CONTAINER	(FG4031-06,MRUS,"Fetal Cardiology")			
2	>	CONTAINS	TEXT	(FG12239-01,MRUS,"Cardiac Activity")			
3	>	CONTAINS	TEXT	(FG4031-07,MRUS,"4C HEART")			
4	>	CONTAINS	TEXT	(T-42000,SNM3,"Aorta")			

A.14. TID (FINDING_4) Fetal Brain

This is a private template referenced by TID (5003).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1		CONTAINS	CONTAINER	(FG4030-01,MRUS,"Fetal Brain")			

A.18. TID (5004)Fetal Biometry Ratio Section

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (125001, DCM,			
2	>	HAS OBS CONTEXT	INCLUDE	EV (11951-1, LN,			
3	>	HAS OBS CONTEXT	NUM	EV (11878-6,LN,			
4	>	CONTAINS	NUM	11947-9, LN, "HC/AC"			
5	>	CONTAINS	NUM	11871-1, LN, "FL/AC"			
6	>	CONTAINS	NUM	11872-9, LN, "FL/BPD"			
7	>	CONTAINS	NUM	(11823-2, LN, "Cephalic Index")			
8	>	CONTAINS	NUM	(11873-7, LN, "FL/HC")			
9	>	CONTAINS	NUM	(C12004-01, MRUS, HrtC/TC)			
10	>	CONTAINS	NUM	(C12004-02, MRUS, "TCD/AC")			
11	>	CONTAINS	NUM	(C12004-03, MRUS, LVW/HW)			
12	>	CONTAINS	NUM	(C12004-04, MRUS, "Cephalic Index by HC")			

A.19. TID (5005) Fetal Biometry Section

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (125002,			
2	>	HAS OBS CONTEXT	TEXT	EV (11951-1,LN,			

3	>	HAS OBS CONTEXT	NUM	EV (11878-6,LN,			
4	>	CONTAINS	INCLUDE	DTID (5008) Fetal Biometry Group			$BiometryType = MemberOf {DCID (12005) Fetal Biometry Measurements}

A.20. TID (5006) Fetal Long Bones Section

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (125003,			
2	>	HAS OBS CONTEXT	TEXT	EV (11951-1,LN,			
3	>	HAS OBS CONTEXT	NUM	EV (11878-6,LN, "Number of			
4	>	CONTAINS	INCLUDE	DTID (5008) Fetal Biometry Group			$BiometryType = MemberOf {DCID (12006) Fetal Long Bones Biometry Measurements}

A.21. TID (5007) Fetal Cranium Section

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (125004, DCM,			
2	>	HAS OBS CONTEXT	TEXT	EV (11951-1,LN,			

3	>	HAS OBS CONTEXT	NUM	EV (11878-6,LN, "Number of			
4	>	CONTAINS	INCLUDE	DTID (5008) Fetal Biometry Group			$BiometryType = MemberOf {DCID (12007) Fetal Cranium}

A.22. TID (5008) Fetal Biometry Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT(125005,			
2	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = $BiometryType $Derivation = DCID (3627) Measurement Type
3	>	CONTAINS	NUM	EV (18185-9,			Units= EV (d,UCUM, days)
4	>>	INFERRED FROM	CODE	DCID (228) Equation or Table			DCID (12013) Gestational Age Equations and Tables
5	>>	R-INFERRED FROM	NUM				
6	>>	HAS PROPERTIES	NUM	DCID (226) Population Statistical Descriptors			
7	>	CONTAINS	NUM	(DCM, 125012, "Growth Percentile Rank")			
8	>>	INFERRED FROM	CODE	DCID (228) Equation or Table			

A.23. TID (5009) Fetal Biophysical Profile Section

	NL	Relation with Parent	Value Type	Concept Name	Used in Modality	Condition	Value Set Constraint
1			CONTAINER	DT (125006,			
2	>	HAS OBS CONTEXT	INCLUDE	EV (11951-1,LN,			
3	>	HAS OBS CONTEXT	NUM	EV (11878-6,LN, "Number of			
4	>	CONTAINS	NUM	EV (11631-9, LN,			Units = DT
5	>>	HAS PROPERTIES	TEXT	(121106, DCM,			
6	>	CONTAINS	NUM	EV (11632-7, LN,			Units = DT
7	>>	HAS PROPERTIES	TEXT	(121106, DCM,			
8	>	CONTAINS	NUM	EV (11635-0, LN,			Units = DT
9	>>	HAS PROPERTIES	TEXT	(121106, DCM,			
10	>	CONTAINS	NUM	EV (11635-5, LN, □			Units = DT
11	>>	HAS PROPERTIES	TEXT	(121106, DCM,			
12	>	CONTAINS	NUM	EV (11630-1, LN, !			Units = DT

13	>>	HAS PROPERTIES	TEXT	(121106, DCM,			
14	>	CONTAINS	NUM	DT (11634-3, LN,			
15	>>	HAS PROPERTIES	TEXT	(121106, DCM,			

A.24. TID (5010) Amniotic Sac Section

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, □			DT (T-F1300, □
3	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = DT (11627-7, LN,
4	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (11624-4, LN,
5	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (11626-9, LN, Second Quadrant
6	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (11625-1, LN,
7	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (11623-6, LN, "Fourth Quadrant

8	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (M12008-01,MRUS, "Amniotic Fluid")

A.25. TID (5011) Early Gestation Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (125009, arly			
2	>	HAS OBS CONTEXT	TEXT	EV (11951-1,LN,			
3	>	HAS OBS CONTEXT	NUM	EV (11878-6,LN, "Number of			
4	>	CONTAINS	INCLUDE	DTID (5008) Fetal Biometry Group			$BiometryType= Member of {DCID (12009) Early Gestation Biometry Measurements}

A.26. TID (5012) Ovaries Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, □			DT (T-87000, □

3	>	CONTAINS	INCLUDE	EV (T-87000, □			$Measurement = EV (T-87000, □
4	> >	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (11829- Ovary ⎮
5	> >	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (11840-
6	> >	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (11857-
7	> >	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (12164- !
8	>	CONTAINS	INCLUDE	EV (T-87000, □			$GroupName = EV (T-87000, □
9	> >	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (11830- □ Ova ⎮
10	> >	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (11841- □
11	> >	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (11858- □
12	> >	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (12165- □ !
13	>	CONTAINS	INCLUDE	EV (T-87000, MRUS			$AnatomyGroup = EV (T-87000, MRUS Ovarian Cyst $SectionLaterality = DCID (244) Laterality
14	>>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (T-87000- □

15	>>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (T-87000-2 □
16	>>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (T-87000-3 □ Ovarian Cyst1 Height
17	>>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (T-87000-4 □ Ovarian Cyst2
18	>>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (T-87000-5 □ Ovarian Cyst2
19	>>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (T-87000-6 □ Ovarian Cyst2
20	>>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (T-87000-7 □ Ovarian Cyst3 Length
							$Measurement = EV (T-87000-8 □ Ovarian Cyst3

[redacted]

Condition **Value Set Constraint**

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (125007, DCM,			
2	>	HAS OBS CONTEXT	TEXT	EV (12510, DCM,			Unique among all groups of same laterality
3	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (G-D705_1, SRT, !
4	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M11793-05, MRUS, Smart Follicle d1
5	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M11793-06, LN, Smart Follicle d2
6	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M11793-07, MRUS, Smart Follicle d3
7	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M11793-04, LN, Smart Follicle MeanDiam
8	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M11793-01, LN, Follicle d1
9	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M11793-02, LN, Follicle d2
10	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M11793-03, LN, Follicle d3
11	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C11793-01, LN, Mean Follicle Diameter

							X_L)
13	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (MRUS,M12011-03,Matrix Kindney Length)
14	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (M12011-04,MRUS,FibreW* r

26	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (M12011-16,MRUS,Lesion2 Length)
27	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (M12011-17,MRUS,Lesion2 Width)
28	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (M12011-18,MRUS,Lesion2 Height)
29	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (M12011-19,MRUS,Lesion3 Length)
30	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (M12011-20,MRUS,Lesion3 2 Width)
31	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (M12011-21,MRUS,Lesion3 Height)

A.32. TID (5025) OB-GYN Fetus Vascular Ultrasound Measurement Group

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	$AnatomyGroup			
2	>	HAS OBS CONTEXT	TEXT	EV (11951-1,LN,			
3	>	HAS OBS CONTEXT	NUM	EV (11878-6,LN, "Number of			
4	>	HAS CONCEPT MOD	CODE	EV (G- □			DCID (244) Laterality
5	>	CONTAINS	INCLUDE	DTID (300) Measurement			$MeasType = DCID (12119) Vascular Ultrasound Property $Derivation = DCID (3627)

CSD	CV	Code Meaning
MRUS	M12005-02	Heart Circumference
MRUS	M12011-01	Placental Thickness
MRUS	M12005-03	Heart Area
MRUS	C12005-01	Abdominal Circumference c
MRUS	M12005-05	Fetal Kidney length
MRUS	M12005-07	Fetal Kidney Height
MRUS	M12005-08	Fetal Kidney width
MRUS	M12005-09	Cardiac Diameter (T)
MRUS	M12005-10	Cardiac Diameter (A-P)
MRUS	M12005-11	Lung CCAM Length
MRUS	M12005-12	Lung CCAM Height
MRUS	M12005-13	Lung CCAM Width
MRUS	M12005-14	Abdominal Diameter
MRUS	M12005-15	Lliac Wing Angle
MRUS	M12005-16	Fetal adrenal gland length
MRUS	M12005-17	Fetal adrenal gland area
MRUS	M12005-18	Fetal adrenal gland circumference
MRUS	M12005-19	Intestinum Crassum
MRUS	M12005-20	Liver Length
MRUS	M12005-21	Rib Length
MRUS	M12005-22	Shoulder Blade
MRUS	C12005-7	Mean Abdominal Diameter

A.38. CID (12006) Fetal Long Bones Measurements

CSD	CV	Code Meaning
LN	11966-9	Humerus length
LN	11967-7	Radius length
LN	11969-3	Ulna length
LN	11968-5	Tibia length
LN	11964-4	Fibula length
LN	11962-8	Clavicle length
LN	11963-6	Femur Length

A.39. CID (12007) Fetal Cranium

CSD	CV	Code Meaning
LN	12171-5	Lateral Ventrical width
LN	11860-4	Cisterna Magna length
LN	12146-7	Nuchal Fold thickness
LN	33070-4	Inner Orbital Diameter
LN	11629-3	Outer Orbital Diameter
LN	11863-8	Trans Cerebellar Diameter
LN	33069-6	Nuchal Translucency
LN	12170-7	Width of Hemisphere
MRUS	M12007-01	Ear Length
MRUS	M12007-02	Middle Phalanx Length
MRUS	M12007-03	Orbit
MRUS	M12007-04	OFDHC
MRUS	C12007-01	HCc
MRUS	M12007-05	intracranial translucency
LN	33197-5	Anterior Horn Lateral ventricular width
LN	33196-7	Posterior Horn Lateral ventricular width
SRT	T-A1740	Third ventricle
MRUS	M12007-06	NT above cord
MRUS	M12007-07	NT below cord
MRUS	M12007-08	right eye
SRT	T-11180	Mandible
MRUS	M12007-09	Prenasal thickness
MRUS	M12007-10	Cavum Septum Pellucidum
MRUS	M12007-11	Frontomaxillary facial angle
MRUS	M12007-12	Mandibulomaxillary facial angle

A.40. CID (12009) Early Gestation Biometry Measurements

CSD	CV	Code Meaning
LN	11957-8	Crown Rump Length
LN	11850-5	Gestational Sac Diameter

LN	33071-2	Spine Length
LN	11816-6	Yolk Sac length
LN	33069-6	Nuchal Translucency
MRUS	C12009-01	Mean Gestational Sac Diameter
MRUS	M12009-01	Gestational Sac Diameter1
MRUS	M12009-02	Gestational Sac Diameter2
MRUS	M12009-03	Gestational Sac Diameter3
MRUS	C12009-01	Mean Gestational Sac Diameter
MRUS	M12009-01	Gestational Sac Diameter1
MRUS	M12009-02	Gestational Sac Diameter2
MRUS	M12009-03	Gestational Sac Diameter3
MRUS	M12009-04	Yolk Sac length
MRUS	M12009-05	Yolk Sac Height
MRUS	M12009-06	Yolk Sac Width
MRUS	M12009-07	Amniotic sac length
MRUS	M12009-08	Amniotic sac Height
MRUS	M12009-09	Amniotic sac Width
MRUS	M12009-10	Ovary Cyst length
MRUS	M12009-11	Ovary Cyst Height
MRUS	M12009-12	Ovary Cyst Width

A.41. CID (12013) Gestational Age Equations and Tables

CSD	**CV**	**Code Meaning**
LN	11885-1	Gestational Age by LMP
LN	11892-7	AC, Hadlock 1984
LN	11893-5	AC, Jeanty 1984
LN	33148-8	AC by GA, Merz 1988
LN	11902-4	BPD, Hadlock 1984
LN	11903-2	BPD, Hansmann 1985
LN	11905-7	BPD, Jeanty 1984
LN	33082-9	BPD, Osaka 1989
LN	33083-7	BPD, Rempen 1991
LN	11906-5	BPD, Kurtz 1980
LN	33088-6	Clavical length,Yarkoni 1985
LN	33091-0	CRL, Daya 1993

CSD	CV	Code Meaning
LN	11910-7	CRL, Hadlock 1992
LN	11911-5	CRL, Hansmann 1985
LN	11917-2	CRL, Jeanty 1984
LN	11913-1	CRL, Nelson 1981
LN	33094-4	CRL, Rempen 1991
LN	11914-9	CRL, Robinson 1975
LN	33138-9	Fetal Trunk Cross-Sectional Area, Osaka 1989
LN	11920-6	FL, Hadlock 1984
LN	11922-2	FL, Hohler 1982
LN	11923-0	FL, Jeanty 1984
LN	11929-7	GS, Rempen 1991
LN	11932-1	HC, Hadlock 1984
LN	33112-4	HC, Hansmann 1985
LN	11934-7	HC, Jeanty 1984
LN	33111-6	HC derived, Chitty 1997
LN	11936-2	Humerus, Jeanty 1984
LN	33544-8	OFD, Hansmann 1985
LN	33134-8	TCD, Hill 1990
LN	11944-6	Ulna, Jeanty 1984
LN	11941-2	Tibia, Jeanty 1984
LN	33110-8	,HC measured, Chitty 1997
LN	33146-2	AC by GA,Hadlock 1984
MRUS	F12013-01	AC, ASUM 2001
MRUS	F12013-02	AC,Nicolaides 1994
MRUS	F12013-03	BPD, ASUM 2001
MRUS	F12013-04	BPD, Merz 1991
MRUS	F12013-05	BPD, Tokyo 1989
MRUS	F12013-06	BPD-oo, Chitty 1994
MRUS	F12013-07	CRL, ASUM 2001
MRUS	F12013-08	CRL, Tokyo 1989
MRUS	F12013-23	EFW, Tokyo 1989
MRUS	F12013-09	FL, ASUM 2001
MRUS	F12013-10	FL, Chitty 1997
MRUS	F12013-11	FL, Merz 1991
MRUS	F12013-12	FL, Tokyo 1989

CSD	CV	Code Meaning
MRUS	F12013-13	FL,Warda,1985
MRUS	F12013-14	GS, Tokyo 1986
MRUS	F12013-15	HC, ASUM 2001
MRUS	F12013-16	HC derived, Chitty 1994
MRUS	F12013-17	HC,Nicolaides 1994
MRUS	F12013-18	Humerus Length, ASUM 2001
MRUS	F12013-19	OFD, ASUM 2001
MRUS	F12013-20	OFD,Nicolaides 1994
MRUS	F12013-21	OOD, Jeanty 1984
MRUS	F12013-22	TCD,Nicolaides 1994
MRUS	F12013-24	THD,Hansmann 1985
MRUS	F12013-25	GS, Hansmann 1985
MRUS	F12013-26	FL, Hansmann 1995
MRUS	F12013-43	EFW, Hadlock 1991
MRUS	F12013-44	Mean Sac Diameter Daya 1991
MRUS	F12013-45	GS,China 1997
MRUS	F12013-46	CRL,China 1997
MRUS	F12013-47	BPD,China 1997
MRUS	F12013-48	BPD,Nicolaides 1994
MRUS	F12013-	

CSD	CV	Code Meaning
LN	11926-3	Foot Length by GA Mercer 1987
MRUS	F12013-61	CRL Verburg 2008
MRUS	F12013-62	BPD Verburg 2008

A.42. CID (12014) Fetal Body Weight

CSD	CV	Code Meaning
LN	11739-0	EFW by AC and BPD, Shepard 1982
LN	11756-4	EFW by AC, Campbell 1975
MRUS	F12014-07	EFW by BPD, APTD, TTD, FL, Tokyo 1987
LN	11735-8	EFW by AC, BPD, FL, Hadlock 1985
LN	11732-5	EFW by AC, BPD, FL, HC, Hadlock 1985
LN	11751-5	EFW by AC, FL, Hadlock 1985
LN	11746-5	EFW by AC, FL, HC, Hadlock 1985
LN	11884-4	Average Ultrasound Age
MRUS	F12013-27	CUA by BPD, Hadlock 1984
MRUS	F12013-28	CUA by AC, Hadlock 1984
MRUS	F12013-29	CUA by HC, Hadlock 1984
MRUS	F12013-30	CUA by FL, Hadlock 1984
MRUS	F12013-31	CUA by BPD, HC, Hadlock 1984
MRUS	F12013-32	CUA by BPD, AC, Hadlock 1984
MRUS	F12013-33	CUA by BPD, FL, Hadlock 1984
MRUS	F12013-34	CUA by HC, AC, Hadlock 1984
MRUS	F12013-35	CUA by HC, FL, Hadlock 1984
MRUS	F12013-36	CUA by AC, FL, Hadlock 1984
MRUS	F12013-37	CUA by BPD, HC, AC, Hadlock 1984
MRUS	F12013-38	CUA by BPD, HC, FL, Hadlock 1984
MRUS	F12013-39	CUA by BPD, AC, FL, Hadlock 1984
MRUS	F12013-40	CUA by HC, AC, FL, Hadlock 1984
MRUS	F12013-41	CUA by BPD, HC, AC, FL, Hadlock 1984
MRUS	F12014-01	EFW by AC,BPD,Merz 1991
MRUS	F12014-02	EFW by AC,Merz 1991
MRUS		

CSD **CV**

CSD	CV	Code Meaning
MRUS	F12015-14	CRL, Hansmann 1985
MRUS	F12015-15	CRL, Robinson 1975
MRUS	F12015-16	CRL, Tokyo 1989
MRUS	F12015-17	EFW by GA, Hadlock 1984
MRUS	F12015-	

LN	11726-7	Peak Velocity
LN	11692-1	Time averaged peak velocity
LN	11692-1	TAMAX
LN	12008-9	PI
LN	12023-8	RI
LN	12144-2	S.D
LN	20168-1	AT
LN	20217-6	DT
LN	20247-3	PPG
LN	20256-4	MPG
MRUS	M12119-01	MMPG
LN	20354-7	VTI
LN	8867-4	HR
MRUS	M12119-02	Theta
LN	11726-7	PV
MRUS	M12119-04	D.S
LN	20167-3	D.S
MRUS	M12119-28	VolFlow
MRUS	M12119-29	Vas.Area
MRUS	M12119-30	VolFlow.TAMEAN
LN	20167-3	AI
DCM	122675	AP
SRT	G-A117	Trans
SRT	G-0364	Outer.D
MRUS	M12119-18	Inner.D
SRT	R-101BB	Stenosis.D
SRT	R-101BA	Stenosis.A
MRUS	M12119-19	Checklist
SRT	G-A143	Long
MRUS	M12119-20	Reflux.V
MRUS	M12119-11	Reflux.Time
MRUS		

MRUS

SRT	T-F6845	Ductus arteriosus
SRT	T-45300	Internal carotid artery
SRT	T-46400	Celiac artery

A.50. CID (SELFCID-1) Fetal Z-Score

CSD	CV	Code Meaning
LN	18015-8	Aortic Root Diameter
LN	18012-5	Ascending Aortic Diameter
LN	18013-3	Descending Aortic Diameter
LN	18019-0	Left Pulmonary Artery Diameter
LN	18021-6	Right Pulmonary Artery Diameter
LN	18020-8	Main Pulmonary Artery Diameter
LN	18154-5	Interventricular Septum Diastolic Thickness
LN	18158-6	Interventricular Septum Systolic Thickness
MRUS	M18015-8	Aortic Root Diameter(Z Score)
MRUS	M18020-8	Main Pulmonary Artery Diameter(Z Score)
MRUS	C12201-06	Left Ventricular Diameter/Right Ventricular Diameter
MRUS	C12201-07	Left Ventricular Diameter/Right Ventricular Diameter(Z Score)
MRUS	C12205-03	Left Atrium Diameter / Right Atrium Diameter
MRUS	C12205-04	Left Atrium Diameter / Aorta Diameter
MRUS	C12205-05	Left Atrium Diameter / Aorta Diameter(Z Score)
MRUS	C12212-01	Aorta Diameter/Main Pulmonary Artery Diameter
MRUS	C12212-03	Aorta Diameter/Main Pulmonary Artery Diameter(Z Score)
MRUS	M12201-01	Left ventricular short-axis diameter at end diastole
MRUS	M12201-08	Left ventricular short-axis diameter at end diastole(Z Score)
MRUS	M12201-02	Left ventricular short-axis diameter at end systole
MRUS	M12201-03	Left ventricular Diameter
MRUS	M12201-09	Left ventricular Diameter(Z Score)
MRUS	M12201-04	interventricular septal thichness
MRUS	M12201-05	Left Ventricular Outflow Tract Diameter
MRUS	M12204-01	Right ventricular short-axis diameter at end diastole
MRUS	M12204-07	Right ventricular short-axis diameter at end diastole(Z Score)
MRUS	M12204-02	Right ventricular short-axis diameter at end systole
MRUS	M12204-03	Right ventricular Diameter
MRUS	M12204-08	Right ventricular Diameter(Z Score)

MRUS	M12204-09	Right ventricular area(Z Score)

MODALITY Label	*DICOM Mapping*
APAD	11818-2,LN,Anterior-Posterior Abdominal Diameter
TC	11988-3,LN,Thoracic Circumference
TAD	11862-0,LN,Tranverse Abdominal Diameter
TTD	11864-6,LN,Transverse Thoracic Diameter
APTD	11819-0,LN,Anterior-Posterior Trunk Diameter
FTA	33068-8,LN,Thoracic Area
TCD	11863-8,LN,Trans Cerebellar Diameter
Foot	11965-1,LN,Foot length
Cist Magna	11860-4,LN,Cisterna Magna
AXT	33191-8,LN,APAD * TAD
F-kidney	M12005-05, MRUS, Fetal Kidney length
NBL	M12005-06 MRUS Nose Bone Length
THD	M12005-01,MRUSLN,Tho

MODALITY Label	*DICOM Mapping*
AF3	11625-1,LN,Third Quadrant Diameter
AF4	11623-6,LN,Fourth Quadrant Diameter
AF	M12008-01,MRUS,Amniotic Fluid
CRL	11957-8,LN,Crown Rump Length
GS	11850-5,LN,Gestational Sac Diameter
Vertebrae	33071-2,LN,Spine Length
YS	11816-6,LN,Yolk Sac length
NT	33069-6,LN,Nuchal Translucency
Mean Sac Diam	C12009-01,MRUS,Mean Gestational Sac Diameter
Cervix L	11961-0,LN,Cervix Length
Cervix L	11961-0,LN,Cervix Length
Endo	12145-9,LN,Endometrium Thickness
Cervix H	M12011-01,MRUS,Cervix Height
Cervix W	M12011-02,MRUS,Cervix Width
Uterus Body	C12011-03,MRUS,Uterus Body
UT-L/CX-L	C12011-04,MRUS,UT_L/CX_L
Mat Kidney	M12011-03,MRUS,Matrix Kindney Length
Fibroid1 d1	M12011-04,MRUS,Fibroid1 Length
Fibroid1 d2	M12011-05,MRUS,Fibroid1 Width
Fibroid1 d3	M12011-06,MRUS,Fibroid1 Height
Fibroid2 d1	M12011-07,MRUS,Fibroid2 Length
Fibroid2 d2	M12011-08,MRUS,Fibroid2 Width
Fibroid2 d3	M12011-09,MRUS,Fibroid2 Height
Fibroid3 d1	M12011-10,MRUS,Fibroid3 Length
Fibroid3 d2	M12011-11,MRUS,Fibroid3 Width
Fibroid3 d3	M12011-12,MRUS,Fibroid3 Height
UT.AW	M12011-13,MRUS, UT Anterior wall thickness
UT.PW	M12011-14,MRUS, UT Posterior wall thickness
Lesion1.L	M12011-09,MRUS, Lesion1 Length
Lesion1.W	M12011-10,MRUS,Lesion1 Width
Lesion1.H	M12011-11,MRUS,Lesion1 Height
Lesion2.L	M12011-12,MRUS,Lesion2 Length
Lesion2.W	M12011-13,MRUS,Lesion2 Width
Lesion2.H	M12011-14,MRUS,Lesion2 Height
Lesion3.L	M12011-15,MRUS,Lesion3 Length

MODALITY Label	*DICOM Mapping*
Lesion3.W	M12011-16,MRUS,Lesion3 Width
Lesion3.H	M12011-17,MRUS,Lesion3 Height
AFI	11627-7,LN,Amniotic Fluid Index
Ovary W	11829-9, LN, Left Ovary Width;11830-7, LN, Right Ovary Width
Ovary L	11840-6, LN, Left Ovary Length;11841-4, LN, Right Ovary Length
Ovary H	11857-0, LN, Left Ovary Height;11858-8, LN, Right Ovary Height
Ovary Vol	12164-0, LN, Left Ovary Volume;12165-7, LN, Right Ovary Volume
Ovarian.Cyst1.L	T-87000-1,MRUS,Ovarian Cyst1 Length
Ovarian.Cyst1.W	T-87000-2,MRUS,Ovarian Cyst1 Width
Ovarian.Cyst1.H	T-87000-3,MRUS,Ovarian Cyst1 Height
Ovarian.Cyst2.L	T-87000-4,MRUS,Ovarian Cyst2 Length
Ovarian.Cyst2.W	T-87000-5,MRUS,Ovarian Cyst2 Width
Ovarian.Cyst2.H	T-87000-6,MRUS,Ovarian Cyst2 Height
Ovarian.Cyst3.L	T-87000-7,MRUS,Ovarian Cyst3 Length
Ovarian.Cyst3.W	T-87000-8,MRUS,Ovarian Cyst3 Width
Ovarian.Cyst3.H	T-87000-9,MRUS,Ovarian Cyst3 Height
Follicle d1	M11793-01, MRUS, Follicle d1
UT W	11865-3,LN,Uterus Width
UT L	11842-2,LN,Uterus Length
UT H	11859-6,LN,Uterus Height
UT Vol	33192-6,LN,Uterus Volume
Follicle d2	M11793-02,MRUS,Follicle d2
Follicle1 d3	M11793-03,MRUS,Follicle d3
Follicle Vol	G-D705,SRT,Volume
Follicle MD	C11793-01, MRUS,Follicle MeanDiam
Smart Follicle > Follicle d1	M11793-05, MRUS, Smart Follicle d1
Smart Follicle > Follicle d2	M11793-06,MRUS, Smart Follicle d2
Smart Follicle > Follicle1 d3	M11793-06,MRUS, Smart Follicle d3
Smart Follicle >Follicle Vol	G-D705_1,SRT,Volume
Smart Follicle ->Follicle MD	11793-7,LN,Smart Follicle MeanDiam
EFW1	11727-5,LN,Estimated Weight
EFW2	11727-5,LN,Estimated Weight
CP	11767-1,LN EFW percentile rank
UP	11767-1,LN EFW percentile rank
CP	11767-1,LN EFW percentile rank

MODALITY Label	*DICOM Mapping*
UP	11767-1,LN EFW percentile rank
EFW(Campbell)	11727-5,LN,Estimated Weight
EFW(Hadlock1)	11727-5,LN,Estimated Weight
EFW(Hadlock2)	11727-5,LN,Estimated Weight
EFW(Hadlock3)	11727-5,LN,Estimated Weight
EFW(Hadlock4)	11727-5,LN,Estimated Weight
EFW(Hansmann)	11727-5,LN,Estimated Weight
EFW(Merz1)	11727-5,LN,Estimated Weight
EFW(Merz2)	11727-5,LN,Estimated Weight
EFW(Osaka)	11727-5,LN,Estimated Weight
EFW(Shepard)	11727-5,LN,Estimated Weight
EFW(Tokyo)	11727-5,LN,Estimated Weight
PL Thickness	M12011-01,MRUS,Placental Thickness
HrtA	M12005-03,MRUS,Heart Area
Facial angle	M12005-04,MRUS,Facial angle
Sac Diam1	M12009-01,MRUS,Gestational Sac Diameter1
Sac Diam2	M12009-

MODALITY Label	*DICOM Mapping*
Rib.Length	M12005-21 MRUS Rib Length
Shoulder.Blade	M12005-22 MRUS Shoulder Blade
MAD	C12005-7 MRUS Mean Abdominal Diameter

A.51.2. Vasculature Anatomic Location

MODALITY Vasculature Anatomic Location	*DICOM Mapping*
Ovarian A	T-46980, SRT, Ovarian Artery
Ut A	T-46820, SRT, Uterine Artery
Fetal Ao	T-42000, SRT, Aorta
Desc Aorta	T-D0765, SRT, Descending Aorta
Asc Aorta	T-42100,SRT,Ascending Aorta
RVOT	T-32550,SRT,Right ventricle outflow tract
LVOT	T-32650,SRT,Left ventricle outflow tract
MCA	T-45600, SRT, Middle Cerebral Artery
Duct Veno	V12141-01, MRUS, Ductus Veno
Umb A	T-F1810, SRT, Umbilical Artery
Umb V	T-F1820, SRT, Umbilical Vein
Placenta A	T-F1412, SRT, Vitelline Artery of Placenta
Max	G-A437, SRT, "Maximum"
Min	R-404FB,SRT Minimum
Mean	R-00317,SRT Mean
Std	113061,DCM Standard Deviation
ROI.Length	M12119-31,MRUS ROI Length
Measure.Length	M12119-32,MRUS Measure Length
Quality.Index	M12119-33,MRUS Quality.Index

A.51.3. OB-GYN Vascular Measurements

MODALITY Label	*DICOM Mapping*
<Vasculature Anatomic Location> ED	11653-3, LN, End Diastolic Velocity
<Vasculature Anatomic Location> MD	11665-7 , LN, Minimum Diastolic Velocity
<Vasculature Anatomic Location> PS	11726-7, LN, Peak Systolic Velocity
<Vasculature Anatomic Location> TAMEAN	20352-1, LN, Time averaged mean velocity
<Vasculature Anatomic Location> TAMAX	11692-1, LN, Time averaged peak velocity
<Vasculature Anatomic Location> PV	11726-7, LN, Peak Velocity
<Vasculature Anatomic Location> PI	12008-9, LN, Pulsatility Index
<Vasculature Anatomic Location> RI	12023-8, LN, Resistivity Index
<Vasculature Anatomic Location> S/D	12144-2, LN, Systolic to Diastolic Velocity Ratio
<Vasculature Anatomic Location> D/S	M12119-04, MRUS, Diastolic to SystolicVelocity Ratio

MODALITY Label	*DICOM Mapping*
<Vasculature Anatomic Location> AT	20168-1, LN, Acceleration Time
<Vasculature Anatomic Location> DT	20217-6, LN, Deceleration Time
<Vasculature Anatomic Location> PPG	20247-3, LN, Peak Gradient
<Vasculature Anatomic Location> MPG	20256-4, LN, Mean Gradient
<Vasculature Anatomic Location> MMPG	M12119-01, MRUS, Mean Velocity Mean Pressure Gradient
<Vasculature Anatomic Location> VTI	M12119-02, MRUS,Velocity-Time Integral
<Vasculature Anatomic Location> HR	11948-7, LN, Fetal Heart Rate
<Vasculature Anatomic Location>	M12119-03, MRUS, Angle
<Vasculature Anatomic Location> VD	R-1025C, SRT, Vessel Intimal Diameter
<Vasculature Anatomic Location> VolFlow	M12119-06, MRUS, Vol Flow(TAMAX&VAS_AREA)
<Vasculature Anatomic Location> VolFlow.TAMEAN	M12119-07, MRUS,Vol Flow(TAMEAN&VAS_AREA)
<Vasculature Anatomic Location> Area	G-0366,SRT,Vessel lumen cross-sectional area

A.51.4. OB-GYN Cardic Measurements

MODALITY Label	*DICOM Mapping*
Ao Diam	18015-8,LN,Aortic Root Diameter
<Z.Scores> Ao Diam	M18015-8,MRUS,Aortic Root Diameter(Z Score)
Ao.Asc.Diam	18012-5,LN,Ascending Aortic Diameter
Ao.Desc.Diam	18013-3,LN,Descending Aortic Diameter
<Z.Scores>PV.Diam	M12209-1,MRUS,Pulmonary Valve Diameter(Z Score)
<Z.Scores>IVC.Diam	M12215-1,MRUS,Inferior Vene Cava Diameter(Z Score)
MPA Diam	Main Pulmonary Artery Diameter
<Z.Scores> MPA Diam	M18020-8,MRUS,Main Pulmonary Artery Diameter(Z Score)
LPA.Diam	18019-0,LN,Left Pulmonary Artery Diameter
RPA.Diam	18021-6,LN,Right Pulmonary Artery Diameter
<Z.Scores>Duct.Art	M12212-1,MRUS,Duct Aorta Diameter(Z Score)
<Z.Scores>TV.Diam	M12208-1,MRUS,Tricuspid Valve Diameter(Z Score)
<Z.Scores>MV.Diam	M12207-1,MRUS,Mitral Valve Diameter(Z Score)
IVSd	18154-5, LN, Interventricular Septum Diastolic Thickness
IVSs	18158-6, LN, Interventricular Septum Systolic Thickness
LVD/RVD	C12201-06,MRUS,Left Ventricular Diameter/Right Ventricular Diameter
<Z.Scores> LVD/RVD	C12201-07,MRUS,Left Ventricular Diameter/Right Ventricular Diameter(Z Score)
LAD/RAD	C12205-03,MRUS,Left Atrium Diameter / Right Atrium Diameter
LAD/AoD	C12205-04,MRUS,Left Atrium Diameter / Aorta Diameter
<Z.Scores> LAD/AoD	C12205-05,MRUS,Left Atrium Diameter / Aorta Diameter(Z Score)
AoD/MPAD	C12212-01,MRUS,Aorta Diameter/Main Pulmonary Artery Diameter
<Z.Scores> AoD/MPAD	C12212-03,MRUS,Aorta Diameter/Main Pulmonary Artery Diameter(Z Score)
LVIDd	M12201-01,MRUS,Left ventricular short-axis diameter at end diastole

<Z.Scores> LVIDd	M12201-08,MRUS,Left ventricular short-axis diameter at end diastole(Z Score)
LVIDs	M12201-02,MRUS,Left ventricular short-axis diameter at end systole
LV Diam	M12201-03,MRUS,Left ventricular Diameter
<Z.Scores> LV Diam	M12201-09,MRUS,Left ventricular Diameter(Z Score)
IVS	M12201-04,MRUS,interventricular septal thichness
LVOT Diam	M12201-05,MRUS,Left Ventricular Outflow Tract Diameter
RVIDd	M12204-01,MRUS,Right ventricular short-axis diameter at end diastole
<Z.Scores> RVIDd	M12204-07,MRUS,Right ventricular short-axis diameter at end diastole(Z Score)
RVIDs	M12204-02,MRUS,Right ventricular short-axis diameter at end systole
RV Diam	M12204-03,MRUS,Right ventricular Diameter
<Z.Scores> RV Diam	M12204-08,MRUS,Right ventricular Diameter(Z Score)
RA Diam	M12206-01,MRUS,Right Atrium Diameter
RV Area	M12204-04,MRUS,Right ventricular area
<Z.Scores> RV Area	M12204-09,MRUS,Right ventricular area(Z Score)
RVOT Diam	M12204-05,MRUS,Right Ventricular Outflow Tract Diameter
LA Diam	M12205-01,MRUS,Left Atrium Diameter
LA Area	M12205-02,MRUS,Left Atrium area
RA Area	M12206-02,MRUS,Right Atrium area
LV Area	M12240-01,MRUS,Left ventricular area
<Z.Scores> LV Area	M12240-02,MRUS,Left ventricular area(Z Score)
ZScoreFL	C12017-1,MRUS,Z-Score by Femur Length
ZScoreBPD	C12017-2,MRUS,Z-Score by Biparietal Diameter
ZScoreClinicalGA	C12017-3,MRUS,Z-Score by Clinical Gestational Age

A.51.5. Biophysical Profile Measurements

MODALITY Label	***DICOM Mapping***
FM	11631-9,LN,Gross Body Movement
FBM	11632-7,LN,Fetal Breathing
FT	11635-0,LN,Fetal Tone
FHR	11635-5,LN,Fetal Heart Reactivity
AF	11630-1,LN,Amniotic Fluid Volume
Total Score	11634-3,LN,Biophysical Profile Sum Score
Fetal Lie	FG12018-02,MRUS,Fetal Lie
Gender	FG7455-01,MRUS,Gender
3 Vessel Cord	FG7160-01,MRUS,3 Vessel Cord
Face	T-D1200,SNM3,Face
Nose Lips	FG4-01,MRUS,Nose Lips
Cord insertion	FG12011-01,MRUS,Cord insertion

Bladder	T-74000,SRT,Bladder
Gall Bladder	T-63000,SRT,Gall bladder
Liver	T-62000,SRT,Liver
Fetal Bowel	FG4031-03,MRUS,Fetal Bowel
Upper Extremities	FG4031-05,MRUS,Upper Extremities
Lower Extremities	FG4031-06,MRUS,Lower Extremities
Cardiac Activity	FG12239-01,MRUS,Cardiac Activity
4C HEART	FG4031-08,MRUS,4C HEART
Aorta	T-42000,SNM3,Aorta
Pulmonary Artery	T-44000,SNM3,Pulmonary Artery
ARCH	FG3010-01,MRUS,ARCH
LVOT	T-32650,SRT,Left Ventricular Outflow Tract
RVOT	T-32550,SRT,Right Ventricle Outflow Tract
Lateral Ventricles	FG4030-02,MRUS,Lateral Ventricles
Cisterna Magna	11860-4,LN,Cisterna Magna
Cerebellum	T-A600A,SNM3,Cerebellum
CSP	FG4030-03,MRUS,CSP
Cervical Spine	T-11501,SNM3,Cervical Spine
Thoracic Spine	T-11502,SNM3,Thoracic Spine
Lumbar Spine	T-11503,SNM3,Lumbar Spine

Sacral Spine

PVA(S)	M99901-12,MRUS,Pubovesical Angle (Stress)
PUA(R)	M99901-13,MRUS,Pubourethral Angle (Rest)
PUA(S)	M99901-14,MRUS,Pubourethral Angle (Stress)
BL Desc. Max(R)	M99901-15,MRUS,Maximal Bladder Descent (Rest)
BL Desc. Max(S)	M99901-16,MRUS,Maximal Bladder Descent (Stress)
UT Desc. Max(R)	M99901-17,MRUS,Maximal Uterus Descent (Rest)
UT Desc. Max(S)	M99901-18,MRUS,Maximal Uterus Descent (Stress)
R Amp. Desc. Max(R)	M99901-19,MRUS,Maximal Rectal Ampulla Descent (Rest)
R Amp. Desc. Max(S)	M99901-20,MRUS,Maximal Rectal Ampulla Descent (Stress)
URA	M99901-21,MRUS,Urethral Rotation Angle
Rectocele Depth	M99901-22,MRUS,Rectocele Depth
Intus. Depth	M99901-23,MRUS,Intus. Depth
ARA(R)	M99901-24,MRUS,Anorectal Angle (Rest)
ARA(S)	M99901-25,MRUS,Anorectal Angle (Stress)
ARA(C)	M99901-26,MRUS,Anorectal Angle (Contraction)
LH AP Diam(R)	M99901-27,MRUS,Levator Hiatal Anteroposterior Diameter (Rest)
LH AP Diam(S)	M99901-28,MRUS,Levator Hiatus Anteroposterior Diameter (Stress)
LH AP Diam(C)	M99901-29,MRUS,Levator Hiatus Anteroposterior Diameter (Contraction)
LH Lateral Diam(R)	M99901-30,MRUS,Levator Hiatus Lateral Diameter (Rest)
LH Lateral Diam(S)	M99901-31,MRUS,Levator Hiatus Lateral Diameter (Stress)
LH Lateral Diam(C)	M99901-32,MRUS,Levator Hiatus Lateral Diameter (Contraction)
LH Angle(R)	M99901-33,MRUS,Levator Hiatus Area (Rest)
LH Circ(R)	M99901-34,MRUS,Levator Hiatus Circumference (Rest)
LH Angle(S)	M99901-35,MRUS,Levator Hiatus Area (Stress)
LH Circ(S)	M99901-36,MRUS,Levator Hiatus Circumference (Stress)
LH Angle(C)	M99901-37,MRUS,Levator Hiatus Area (Contraction)
LH Circ(C)	M99901-38,MRUS,Levator Hiatus Circumference (Contraction)
LA Thickness (R)	M99901-39,MRUS,Levator Ani Thickness (Rest)
LA Thickness (S)	M99901-40,MRUS,Levator Ani Thickness (Stress)
LA Thickness (C)	M99901-41,MRUS,Levator Ani Thickness (Contraction)
LA Angle(R)	M99901-42,MRUS,Levator Ani Angle (Rest)
LA Angle(S)	M99901-43,MRUS,Levator Ani Angle (Stress)
LA Angle(C)	M99901-44,MRUS,Levator Ani Angle (Contraction)
LUG(R)	M99901-45,MRUS,Levator Urethra Gap (Rest)
LUG(S)	M99901-46,MRUS,Levator Urethra Gap (Stress)
LUG(C)	M99901-47,MRUS,Levator Urethra Gap (Contraction)

ResUr (Dietz)	C99901-01,MRUS,Residual Urine (Dietz)
ResUr (Haylen)	C99901-02,MRUS,Residual Urine (Haylen)
ResUr (Dicuio)	C99901-03,MRUS,Residual Urine (Dicuio)
Mean DWT	C99901-04,MRUS,Detrusor Wall Thickness (C)
BND	C99901-05,MRUS,Bladder Neck Descent
IAS Damage	C99901-07,MRUS,IAS Damage
EAS Damage	C99901-08,MRUS,EAS Damage
DWT1	M99901-48,MRUS,Detrusor Wall Thickness1
DWT2	M99901-49,MRUS,Detrusor Wall Thickness2
DWT3	M99901-50,MRUS,Detrusor Wall Thickness3
IAS D1	M99901-51,MRUS,IAS Damage1
IAS D2	M99901-52,MRUS,IAS Damage2
EAS D1	M99901-53,MRUS,EAS Damage1
EAS D2	M99901-54,MRUS,EAS Damage2
BSD(R) (Ref Coord C1)	M99901-55,MRUS,Bladder Neck-Symphyseal Distance1 (Rest)

BL Desc. Max(R)

PUA(R) (Ref Coord C3)	M99901-81,MRUS,Pubourethral Angle3 (Rest)
PVA(R) (Ref Coord C3)	M99901-82,MRUS,Pubovesical Angle3 (Rest)
RVA(R) (Ref Coord C3)	M99901-83,MRUS,Retrovesical Angle3 (Rest)
UTA(R) (Ref Coord C3)	M99901-84,MRUS,Urethral Tilt Angle3 (Rest)
BSD(S) (Ref Coord C3)	M99901-85,MRUS,Bladder Neck-Symphyseal Distance3 (Stress)
BL Desc. Max(S) (Ref Coord C3)	M99901-86,MRUS,Maximal Bladder Descent3 (Stress)
PUA(S) (Ref Coord C3)	M99901-87,MRUS,Pubourethral Angle3 (Stress)
PVA(S) (Ref Coord C3)	M99901-88,MRUS, Pubovesical Angle3 (Stress)
RVA(S) (Ref Coord C3)	M99901-89,MRUS,Retrovesical Angle3 (Stress)
UTA(S) (Ref Coord C3)	M99901-90,MRUS,Urethral Tilt Angle3 (Stress)

B. Appendix : Cardiac structured reporting template

This appendix lists the DICOM Structured Report (SR) mappings used in the Cardiac Structured Reports of ultrasound system SR files.

The mappings are organized in a manner similar to the DICOM SR Templates as described in PS 3.16 of the DICOM Standard. The Cardiac Report mappings follow the DICOM SR Template TID 5200: Cardiac Ultrasound Procedure Report, except where noted.

All private code values use the Coding Scheme Designator "MRUS".

B.1. TID (5200) Echocardiography Procedure Report

This template forms the top of a content tree that allows an ultrasound system to describe the results of an adult echocardiography imaging procedure.

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (125200, DCM,			
2	>	HAS CONCEPT MOD	INCLUDE	DTID (1204) Language of Content Item and Descendants			
3	>	HAS OBS CONTEXT	INCLUDE	DTID (1001) Observation Context			
4	>	CONTAINS	INCLUDE	DTID (5201) Echocardiography Patient Characteristics			
5	>	CONTAINS	CONTAINER				
6	>>	CONTAINS	IMAGE	No purpose of reference			
7	>	CONTAINS	INCLUDE	DTID(SELFTEM-2)Echo Procedure Summary Section			
8	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (T- ! $MeasType = DCID

							(12200) Echocardiography Left Ventricle
9	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (T- □ □ ! $MeasType = DCID (12204) Echocardiography Right Ventricle
10	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (T- □ $MeasType = DCID (12205) Echocardiography Left Atrium
11	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (T- □ □ $MeasType = DCID (12206) Echocardiography Right Atrium
12	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (T-35400, SRT, ! $MeasType = DCID (12211) Echocardiography Aortic Valve
13	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (T-35300, SRT, ! $MeasType = DCID (12207) Echocardiography Mitral Valve
14	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (T-35200, SRT, ! $MeasType = DCID (12209)

							Echocardiography Pulmonic Valve
15	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (T-35100, SRT, ! $MeasType = DCID (12208) Echocardiography Tricuspid Valve
16	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (T-42000, SRT, $MeasType= DCID (12212) Echocardiography Aorta
17	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (T-44000, SRT, $MeasType DCID (12210) = Echocardiography Pulmonary Artery
18	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (T- ! $MeasType = DCID (12215) Echocardiography Vena Cavae
19	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (T-48581, SRT, Pulmonary Venous $MeasType = DCID (12214) Echocardiography Pulmonary Veins
20	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (P5-30031, SRT, DCID (12217)

							Echocardiography Cardiac Shunt
21	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (D4-30000, SRT, of Cardiovascular = DCID (12218) Echocardiography Congenital
22	>	CONTAINS	INCLUDE	DTID (5204) Wall Motion Analysis			
23	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (D3-90000, SRT, $MeasType = DCID (90000) Pericardial disease
24	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (T-48720, SRT, ! $MeasType = DCID (12216) Echocardiography Hepatic Veins
25	>	CONTAINS	INCLUDE	DTID (5202) Echo Section			$SectionSubject = EV (8867- □ $MeasType = DCID (12220) Echocardiography Common Measurements
26	>	CONTAINS	TEXT	(20121120,MRUS, self-defined-Measurementfile)			

B.2. TID(1001) Observation Context

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1	>	HAS OBS CONTEXT	CODE	EV (121005,DCM,			(121006,DCM,
2	>	HAS OBS CONTEXT	PNAME	EV (121008,DCM,			Operator from Info
3	>	HAS OBS CONTEXT	TEXT	EV (121009,DCM,			Institution Name (0008,0080) of the General Equipment Module
4	>	HAS OBS CONTEXT	CODE	EV (121010,DCM, Role in the			(121093, DCM, "Sonographer")
5	>	HAS OBS CONTEXT	CODE	EV (121024, DCM,			(121025, DCM,
6	>	HAS OBS CONTEXT	PNAME	EV (121029,DCM,			(0010,0010) in Patient Module
7	>	HAS OBS CONTEXT	DATE	EV (121031,DCM, "Subject B			Date (0010,0030) in Patient Module
8	>	HAS OBS CONTEXT	CODE	EV (121032,DCM,			value equivalent to (0010,0040) in Patient Module
9	>	HAS OBS CONTEXT	NUM	EV (121033,DCM, "Subject Age			(0010,1010) in Patient Study Module

B.3. TID (5201) Echocardiography Patient Characteristics

	NL	Rel with Parent	VT	Concept Name	Used in Modality	Value Set Constraint	Comments
1			CONTAINER	EV (121118, DCM,			
2	>	CONTAINS	NUM	EV (121033, DCM,		Units = DCID (7456) Units of Measure for Age	from Info

3	>	CONTAINS	CODE	EV (121032, DCM,		DCID (7455) Sex	from worklist or Info
4	>	CONTAINS	NUM	EV (8867-			from Info
5	>	CONTAINS	NUM	EV (F-008EC, SRT,			from Info
6	>	CONTAINS	NUM	EV (F-008ED, SRT, "Diastolic Blood Pressure")			from Info
7	>	CONTAINS	NUM	EV(18070-3,LN,"Right Atrium Systolic Pressure")			from Info
8	>	CONTAINS	NUM	EV (8302-			from worklist or Info
9	>	CONTAINS	NUM	EV (29463-			

							interface Comment
8	>	CONTAINS	TEXT	(I12101-05,MRUS,"Prompt")			from report interface Comment
9	>	CONTAINS	TEXT	(121071,DCM,"Findings")			from report interface Comment

B.5. TID (5202) ECHO SECTION

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	EV (121070,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT,		$SectionSubject = EV (T-32600, □ !	
3	>	CONTAINS	CONTAINER	DT (125007, DCM,			
4	>>	HAS CONCEPT MOD	CODE	EV (G-0373, SRT		BCID (12224) Ultrasound Image Modes	
5	>>	HAS CONCEPT MOD	CODE	DT			
6	>>	CONTAINS	INCLUDE	DTID (5203) Echo Measurement		$Measurement= $MeasType = DCID (12200) Echocardiography Left Ventricle $Method=CID (12227) Echocardiography Measurement Method	

B.6. TID (5203) Echo Measurement

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			INCLUDE	DTID (300) Measurement		$Measurement = $Measurement $Method = $Method $TargetSite = BCID (12236) Echo Anatomic Sites $TargetSiteMod = BCID (12237) Echocardiography Anatomic Site Modifiers	
2	>	HAS CONCEPT MOD	CODE	EV(G-C036,SRT,"Measurement Method")		This row is used only if the measurement or calculation this template is invoked with mandates it. Otherwise this row is not used. The values are taken from the BCID 12227	
3	>	HAS CONCEPT MOD	CODE	EV (G- □		BCID (12221) Flow Direction	
4	>	HAS CONCEPT MOD	CODE	EV (R- □ □		DCID (12234) Respiration State	
5	>	HAS CONCEPT MOD	CODE	EV (R- □		DCID (12233) Respiration State	
6	>	HAS ACQ CONTEXT	CODE	EV (G- □		DCID (12224) Ultrasound Image Modes	

7	>	HAS ACQ CONTEXT	CODE	! !		BCID (12226) Echocardiography Image View	

B.7. CID (12200) Echocardiography Left Ventricle

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

B.8. CID (12201) Left Ventricle Linear

CSD	**CV**	**Code Meaning**
LN	29436-3	Left Ventricle Internal End Diastolic Dimension
LN	29438-9	Left Ventricle Internal Systolic Dimension
LN	18051-3	Left Ventricular Fractional Shortening
LN	18154-5	Interventricular Septum Diastolic Thickness
LN	18155-2	Interventricular Septum to Posterior Wall Thickness Ratio
LN	18054-7	Interventricular Septum % Thickening
LN	18158-6	Interventricular Septum Systolic Thickness
LN	18053-9	Left Ventricle Posterior Wall % Thickening
LN	18077-8	Left Ventricle diastolic major axis
LN	18076-0	Left Ventricle systolic major axis
LN	18156-0	Left Ventricle Posterior Wall Systolic Thickness
LN	18152-9	Left Ventricle Posterior Wall Diastolic Thickness
MRUS	M12201-01	Left ventricular Major
MRUS	M12201-02	Left ventricular Minor
MRUS	C12201-01	Mean Velocity of Circumferential Fiber Shortening
MRUS	M12201-03	A Distance
MRUS	M12201-04	B Distance
MRUS	M12201-05	Left ventricular internal diameter to BSA Ratio

MRUS	M12201-06	Left ventricular mean circumference Fractional Shortening
MRUS	C12201-02	Relative Wall Thickness
LN	29436-3	Left Ventricle Internal End Diastolic Dimension
LN	29438-9	Left Ventricle Internal Systolic Dimension
LN	18154-5	Interventricular Septum Diastolic Thickness
LN	18152-9	Left Ventricle Posterior Wall Diastolic Thickness

B.9. CID (12202) Left Ventricle Volume

CSD	CV	Code Meaning
LN	18026-5	Left Ventricular End Diastolic Volume
LN	18148-7	Left Ventricular End Systolic Volume
LN	18043-0	Left Ventricular Ejection Fraction
MRUS	C12202-01	Left Ventricular EDV index
MRUS	C12202-02	Left Ventricular ESV index

B.10. CID (12203) Left Ventricle Other

CSD	CV	Code Meaning
LN	18087-7	Left Ventricle Mass
LN	18071-1	Left Ventricular Isovolumic Relaxation Time
SRT	G-037E	Left Ventricular Isovolumic Contraction Time
SRT	G-037F	Left Ventricular Index of Myocardial Performance
MRUS	M12203-01	Left Ventricle Pre-Ejection Period
MRUS	M12203-02	Left Ventricle Ejection Time
MRUS	C12203-01	Left ventricular Mass Weight Index
MRUS	C12203-02	Left Ventricle Pre-Ejection Period to Ejection Time Ratio

B.11. CID (12204) Echocardiography Right Ventricle

CSD	CV	Code Meaning
INCLUDE CID 12220 Echocardiography Common Measurements		
INCLUDE CID 12222 Orifice Flow Properties		
INCLUDE CID 12239 Cardiac Output Properties		
LN	20304-2	Right Ventricular Internal Diastolic Dimension
LN	20305-9	Right Ventricular Internal Systolic Dimension
SRT	G-0381	Right Ventricular Index of Myocardial Performance

CSD	CV	Code Meaning
SRT	G-0380	Right Ventricular Peak Systolic Pressure
LN	18153-7	Right Ventricular Anterior Wall Diastolic Thickness
LN	18157-8	Right Ventricular Anterior Wall Systolic Thickness
MRUS	M12204-01	Right ventricular Major
MRUS	M12204-02	Right ventricular Minor
MRUS	M12204-03	Right ventricular Area at end-diastole
MRUS	M12204-04	Right ventricular Area at end-systole
MRUS	M12204-05	Right Ventricle Pre-Ejection Period
MRUS	M12204-06	Right Ventricle Ejection Time
MRUS	C12204-01	Right Ventricle Pre-Ejection Period to Ejection Time Ratio
MRUS	C12204-02	Right Ventricle Acceleration Time to Ejection Time Ratio
MRUS	C12204-03	Right Ventricular Fractional Area Change
LN	20304-2	Right Ventricular Internal Diastolic Dimension
LN	20305-9	Right Ventricular Internal Systolic Dimension
MRUS	M12204-03	Right ventricular Area at end-diastole
MRUS	M12204-04	Right ventricular Area at end-systole
MRUS	M12204-07	Right ventricular end-diastolic basal diameter
MRUS	M12204-08	Right ventricular end-diastolic midcavity diameter

B.12. CID (12205) Echocardiography Left Atrium

CSD	CV	Code Meaning
INCLUDE CID 12220 Echocardiography Common Measurements		
LN	29469-4	Left Atrium Antero-posterior Systolic Dimension
LN	17985-3	Left Atrium to Aortic Root Ratio
LN	17977-0	Left Atrium Systolic Area
SRT	G-0383	Left Atrium Systolic Volume
MRUS	M12205-01	Left atrium Major
MRUS	M12205-02	Left atrium Minor
MRUS	[redacted]	

B.13. CID (12206) Echocardiography Right Atrium

CSD	CV	Code Meaning
INCLUDE CID 12220 Echocardiography Common Measurements		

LN

CSD	CV	Code Meaning
MRUS	M12207-06	Mitral Valve E-wave Pressure Gradient

B.18. CID (12211) Echocardiography Aortic Valve

CSD	CV	Code Meaning
INCLUDE CID 12220 Echocardiography Common Measurements		
INCLUDE CID 12222 Orifice Flow Properties		
LN	17996-0	Aortic Valve Cusp Separation
SRT	G-0382	Ratio of Aortic Valve Acceleration Time to Ejection Time

B.19. CID (12212) Echocardiography Aorta

CSD	CV	Code Meaning
INCLUDE CID 12220 Echocardiography Common Measurements		
LN	18015-8	Aortic Root Diameter
LN	18011-7	Aortic Arch Diameter
LN	18012-5	Ascending Aortic Diameter
LN	18014-1	Aortic Isthmus Diameter
LN	18013-3	Descending Aortic Diameter
MRUS	M12212-01	Aortic Sinotubular junction Diameter
MRUS	M12212-02	Aortic Sinus Diameter
MRUS	M12212-03	Ductus Artery Diameter
MRUS	M12212-04	Previous Ductal Diameter
MRUS	M12212-05	Left Coronary Artery Diameter
MRUS	M12212-06	Right Coronary Artery Diameter
MRUS	C12212-02	Aortic Sinotubular junction Diameter/Aorta Root Diameter
LN	18014-1	Aortic Isthmus Diameter
MRUS	M12212-01	Aortic Sinotubular junction Diameter
MRUS	M12212-02	Aortic Sinus Diameter
MRUS	M12212-07	Ao Arch IA-LCA
MRUS	M12212-08	Ao Arch LCA-LSA
MRUS	M12212-09	Ao Arch After LSA
MRUS	M12212-	Thoracic Ao Diam

B.20. CID (12214) Echocardiography Pulmonary Veins

CSD	CV	Code Meaning
INCLUDE CID 12220 Echocardiography Common Measurements		
SRT	G-038B	Pulmonary Vein A-Wave Duration

CSD	CV	Code Meaning
SRT	G-038D	Pulmonary Vein D-Wave Velocity Time Integral/
SRT	G-038C	Pulmonary Vein S-Wave Velocity Time Integral
MRUS	M12214-01	Pulmonary Vein S wave flow Velocity
MRUS	M12214-02	Pulmonary Vein D-wave flow Velocity
MRUS	M12214-03	Pulmonary Vein A-wave flow Velocity
MRUS	M12214-04	Pulmonary Vein Deceleration Time
MRUS	M12214-05	Pulmonary Vein Ratio of S-Wave velocity to D-wave velocity
MRUS	M12214-06	Pulmonary Vein Systolic fraction

B.21. CID (12215) Echocardiography Vena Cavae

CSD	CV	Code Meaning

INCLUDE CID 12220 Echocardiography Common Measurements

CSD	CV	Code Meaning
		Gradient

B.23. CID (12217) Echocardiography Cardiac Shunt

CSD	CV	Code Meaning
INCLUDE CID 12220 Echocardiography Common Measurements		
INCLUDE CID 12239 Cardiac Output Properties		
LN	29462-9	Pulmonary-to-Systemic Shunt Flow Ratio
MRUS	M12217-01	Pulmonary-sub-Systemic Shunt Flow Difference

B.24. CID (12218) Echocardiography Congenital

CSD	CV	Code Meaning
INCLUDE CID 12220 Echocardiography Common Measurements		
INCLUDE CID 12222 Orifice Flow Properties		
MRUS	M12218-01	Patent Ductus Arteriosus Diameter
MRUS	M12218-02	Patent Foramen Ovale Diameter
MRUS	M12218-03	Patent Ductus Arteriosus Diastolic Velocity
MRUS	M12218-04	Patent Ductus Arteriosus Systolic Velocity
MRUS	M12218-05	Coarctation of Pre-Ductus Velocity
MRUS	M12218-06	Coarctation of Post-Ductus Velocity
MRUS	M12218-07	Patent Ductus Arteriosus Diastolic Peak Gradient
MRUS	M12218-08	Patent Ductus Arteriosus Systolic Peak Gradient
MRUS	M12218-09	Coarctation of Pre-Ductus Peak Gradient
MRUS	M12218-10	Coarctation of Post-Ductus Peak Gradient

B.25. CID (12220) Echocardiography Common Measurements

CSD	CV	Code Meaning
LN	8867-4	Heart rate

B.26. CID (12221) Flow Direction

CSD	CV	Code Meaning
SRT	R-409E2	Doppler Color Flow
SRT	G-0394	M mode
SRT	R-409E4	Doppler Pulsed
SRT	R-409E3	Doppler Continuous Wave
DCM	125230	Power Doppler
DCM	125231	3D mode
MRUS	IM12224-01	Tissue Doppler Imaging

B.29. CID (12226) Echocardiography Image View

CSD	CV	Code Meaning
SRT	G-A19B	Apical two chamber
SRT	G-A19C	Apical four chamber
SRT	G-0395	Apical long axis
SRT	G-0396	Parasternal long axis
SRT	G-0397	Parasternal short axis
SRT	G-0398	Parasternal short axis at the aortic valve level
SRT	G-0399	Parasternal short axis at the level of the mitral chords
SRT	G-039A	Parasternal short axis at the Mitral Valve level
SRT	G-039B	Parasternal short axis at the Papillary Muscle level
SRT	G-039C	Right Ventricular Inflow Tract View
SRT	G-039D	Right Ventricular Outflow Tract View
SRT	G-039E	Subcostal long axis
SRT	G-039F	Subcostal short axis
SRT	G-03A0	Suprasternal long axis
SRT	G-03A1	Suprasternal short axis

B.30. CID (12227) Echocardiography Measurement Method

INCLUDE CID 12228 Echocardiography Volume Methods
INCLUDE CID 12229 Echocardiography Area Methods
INCLUDE CID 12231 Volume Flow Methods

B.31. CID (12228) Volume Methods

CSD	CV	Code Meaning
DCM	125204	Area-Length Biplane

B.35. CID (12232) Myocardium Mass Methods

CSD	CV	Code Meaning
DCM	125221	Left Ventricle Mass by M-mode
DCM	125222	Left Ventricle Mass by Truncated Ellipse

B.36. CID (12233) Cardiac Phase

CSD	CV	Code Meaning
SRT	F-32020	Systole
SRT	F-32010	Diastole
SRT	F-32011	End Diastole
DCM	109070	End Systole

B.37. CID (12234) Respiration Phase

CSD	CV	Code Meaning
SRT	F-20010	During Inspiration
SRT	F-20020	During Expiration

B.38. CID (12239) Cardiac Output Properties

CSD	CV	Code Meaning
SRT	F-32120	Stroke Volume
SRT	F-32100	Cardiac Output
SRT	F-32110	Cardiac Index
SRT	F-00078	Stroke Index
SRT	F	

SRT	G-0379	Left Ventricle Epicardial Diastolic Area, psax pap view
MRUS	M12240-01	Left Ventricle Endocardiac Diastolic Area, psax pap view
SRT	G-0376	Left Ventricular Fractional Area Change
SRT	G-0374	Left Ventricular Systolic Area
SRT	G-0375	Left Ventricular Diastolic Area

B.40. CID (90000) Pericardial disease

CSD	CV	Code Meaning
MRUS	C90000-01	Pericard Effusion at end-diastole
MRUS	C90000-02	Pericard Effusion at end-systole
SRT	T-35313	Mitral Annulus

B.41. Mapping between Modality measurements and DICOM Concepts.

B.41.1. Left Ventricle Measurements

MODALITY Label	*DICOM Mapping*	*Optional Modifiers*
LVOT HR	8867-4,LN,Heart rate	
LVIDd(2D)	29436-3,LN,Left Ventricle Internal End Diastolic Dimension	ImageMode = G-03A2,SRT,2D mode;
LVIDd Cube(2D)	29436-3,LN,Left Ventricle Internal End Diastolic Dimension	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
LVIDd Teich(2D)	29436-3,LN,Left Ventricle Internal End Diastolic Dimension	ImageMode = G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
LVIDd Gibson(2D)	29436-3,LN,Left Ventricle Internal End Diastolic Dimension	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
LVIDd Gibson(M)	29436-3,LN,Left Ventricle Internal End Diastolic Dimension	ImageMode = G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
LVIDd Cube(M)	29436-3,LN,Left Ventricle Internal End Diastolic Dimension	ImageMode = G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
LVIDd Teich(M)	29436-3,LN,Left Ventricle Internal End Diastolic Dimension	ImageMode = G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
LVIDd LV Mass(Cube)(2D)	29436-3,LN,Left Ventricle Internal End Diastolic Dimension	ImageMode = G-03A2,SRT,2D mode;

LVIDd LV Mass(Cube)(M)	29436-3,LN,Left Ventricle Internal End Diastolic Dimension	ImageMode = G-0394,SRT,M Mode; Method =125221,DCM,Left Ventricle Mass by M-mode
LVIDd(BP Ellipse)	29436-3,LN,Left Ventricle Internal End Diastolic Dimension	ImageMode = G-03A2,SRT,2D mode; Method =125211,DCM,Biplane Ellipse
LVIDd(M)	29436-3,LN,Left Ventricle Internal End Diastolic Dimension	ImageMode = G-0394,SRT,M Mode;
LVIDs(2D)	29438-9,LN,Left Ventricle Internal Systolic Dimension	ImageMode = G-03A2,SRT,2D mode;
LVIDs Cube(2D)	29438-9,LN,Left Ventricle Internal Systolic Dimension	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
LVIDs Teich(2D)	29438-9,LN,Left Ventricle Internal Systolic Dimension	ImageMode = G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
LVIDs Gibson(2D)	29438-9,LN,Left Ventricle Internal Systolic Dimension	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
LVIDs Cube(M)	29438-9,LN,Left Ventricle Internal Systolic Dimension	ImageMode = G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
LVIDs Teich(M)	29438-9,LN,Left Ventricle Internal Systolic Dimension	ImageMode = G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
LVIDs Gibson(M)	29438-9,LN,Left Ventricle Internal Systolic Dimension	ImageMode = G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
LVIDs(BP Ellipse)	29438-9,LN,Left Ventricle Internal Systolic Dimension	ImageMode = G-03A2,SRT,2D mode; Method =125211,DCM,Biplane Ellipse

IVSd(LV Mass Cube-2D)	18154-5,LN,Interventricular Septum Diastolic Thickness	ImageMode = G-03A2,SRT,2D mode;
IVSd(LV Mass Cube-M)	18154-5,LN,Interventricular Septum Diastolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =125221,DCM,Left Ventricle Mass by M-mode
IVSd(M)	18154-5,LN,Interventricular Septum Diastolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =
IVSd Teich(2D)	18154-5,LN,Interventricular Septum Diastolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
IVSd Teich(M)	18154-5,LN,Interventricular Septum Diastolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
IVSd Cube(2D)	18154-5,LN,Interventricular Septum Diastolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
IVSd Cube(M)	18154-5,LN,Interventricular Septum Diastolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
IVSd Gibson(2D)	18154-5,LN,Interventricular Septum Diastolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
IVSd Gibson(M)	18154-5,LN,Interventricular Septum Diastolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
IVSd/LVPWd(2D)	18155-2,LN,Interventricular Septum to Posterior Wall Thickness Ratio	CardiacCyclePoint =F-32011,SRT,End Diastole; ImageMode = G-03A2,SRT,2D mode;
IVSs/LVPWs(2D)	18155-2,LN,Interventricular Septum to Posterior Wall Thickness Ratio	CardiacCyclePoint =109070,SRT,End Systole; ImageMode = G-03A2,SRT,2D mode;
IVSd/LVPWd(M)	18155-2,LN,Interventricular Septum to Posterior Wall Thickness Ratio	CardiacCyclePoint =F-32011,SRT,End Diastole; ImageMode = G-0394,SRT,M Mode;
IVSs/LVPWs(M)	18155-2,LN,Interventricular Septum to Posterior Wall Thickness Ratio	CardiacCyclePoint =109070,SRT,End Systole; ImageMode = G-0394,SRT,M Mode;
IVS%(2D)	18054-7,LN,Interventricular Septum % Thickening	ImageMode = G-03A2,SRT,2D mode;
IVS%(M)	18054-7,LN,Interventricular Septum % Thickening	ImageMode = G-0394,SRT,M Mode;
IVSs(2D)	18158-6,LN,Interventricular Septum Systolic Thickness	ImageMode = G-03A2,SRT,2D mode;
IVSs(M)	18158-6,LN,Interventricular Septum Systolic Thickness	ImageMode = G-0394,SRT,M Mode;
IVSs Teich(2D)	18158-6,LN,Interventricular Septum Systolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
IVSs Teich(M)	18158-6,LN,Interventricular Septum Systolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =125209,DCM,Teichholz

IVSs Cube(2D)	18158-6,LN,Interventricular Septum Systolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
IVSs Cube(M)	18158-6,LN,Interventricular Septum Systolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
IVSs Gibson(2D)	18158-6,LN,Interventricular Septum Systolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
IVSs Gibson(M)	18158-6,LN,Interventricular Septum Systolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
LVPW%(2D)	18053-9,LN,Left Ventricle Posterior Wall % Thickening	ImageMode = G-03A2,SRT,2D mode;
LVPW%(M)	18053-9,LN,Left Ventricle Posterior Wall % Thickening	ImageMode = G-0394,SRT,M Mode;
LVLd apical(Mod.Simpson)	18077-8,LN,Left Ventricle diastolic major axis	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-02,MRUS,Method of Disks,Simpson
LVLd(A2C)	18077-8,LN,Left Ventricle diastolic major axis	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125208,DCM,Method of Disks, Single Plane
LVLd(A4C)	18077-8,LN,Left Ventricle diastolic major axis	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125208,DCM,Method of Disks, Single Plane
LVLd apical(SP Ellipse)	18077-8,LN,Left Ventricle diastolic major axis	ImageMode = G-03A2,SRT,2D mode; Method =125226,DCM,Single Plane Ellipse
LVLd apical(Bullet)	18077-8,LN,Left Ventricle diastolic major axis	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-01,MRUS,Bullet
LVLd apical(LV Mass A-L)	18077-8,LN,Left Ventricle diastolic major axis	ImageMode = G-03A2,SRT,2D mode; Method =125205,DCM,Area-Length Single Plane
LVLd2i	18077-8,LN,Left Ventricle diastolic major axis	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125207,DCM,Method of Disks, Biplane
LVLd4i	18077-8,LN,Left Ventricle diastolic major axis	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125207,DCM,Method of Disks, Biplane
LVLs apical(Mod.Simpson)	18076-0,LN,Left Ventricle systolic major axis	ImageMode = G-03A2,SRT,2D mode;

LVLs(A2C)	18076-0,LN,Left Ventricle systolic major axis	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125226,DCM,Single Plane Ellipse
LVLs(A4C)	18076-0,LN,Left Ventricle systolic major axis	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125226,DCM,Single Plane Ellipse
LVLs apical(SP Ellipse)	18076-0,LN,Left Ventricle systolic major axis	ImageMode = G-03A2,SRT,2D mode;
LVLs apical(Bullet)	18076-0,LN,Left Ventricle systolic major axis	ImageMode = G-03A2,SRT,2D mode;
LVLs2i	18076-0,LN,Left Ventricle systolic major axis	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125207,DCM,Method of Disks, Biplane
LVLs4i	18076-0,LN,Left Ventricle systolic major axis	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125207,DCM,Method of Disks, Biplane
LVPWs(2D)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-03A2,SRT,2D mode;
LVPWs(M)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-0394,SRT,M Mode;
LVPWs Cube(2D)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
LVPWs Cube(M)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
LVPWs Teich(2D)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
LVPWs Teich(M)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
LVPWs Gibson(2D)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
LVPWs Gibson(M)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
LVPWd(2D)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-03A2,SRT,2D mode;
LVPWd(LV Mass-2D)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-03A2,SRT,2D mode;

LVPWd(LV Mass-M)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =125221,DCM,Left Ventricle Mass by M-mode
LVPWd(M)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-0394,SRT,M Mode;
LVPWd Cube(2D)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
LVPWd Cube(M)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
LVPWd Teich(2D)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
LVPWd Teich(M)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
LVPWd Gibson(2D)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
LVPWd Gibson(M)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
LV Major	M12201-01,MRUS,Left ventricular Major	ImageMode = G-03A2,SRT,2D mode;
LV Minor	M12201-02,MRUS,Left ventricular Minor	ImageMode = G-03A2,SRT,2D mode;
MVCF(Cube-M)	C12201-01,MRUS,Mean Velocity of Circumferential Fiber Shortening	ImageMode = G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
MVCF(Teich-M)	C12201-01,MRUS,Mean Velocity of Circumferential Fiber Shortening	ImageMode = G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
MVCF(Gibson-M)	C12201-01,MRUS,Mean Velocity of Circumferential Fiber Shortening	ImageMode = G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
MVCF(Cube-2D)	C12201-01,MRUS,Mean Velocity of Circumferential Fiber Shortening	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
MVCF(Teich-2D)	C12201-01,MRUS,Mean Velocity of Circumferential Fiber Shortening	ImageMode = G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
MVCF(Gibson-2D)	C12201-01,MRUS,Mean Velocity of Circumferential Fiber Shortening	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
RWT(2D)	C12201-02,MRUS ,Relative Wall Thickness	ImageMode = G-03A2,SRT,2D mode;
RWT(M)	C12201-02,MRUS ,Relative Wall Thickness	ImageMode = G-0394,SRT,M Mode;
a	M12201-03,MRUS,A Distance	ImageMode = G-03A2,SRT,2D mode;
d	M12201-04,MRUS,B Distance	ImageMode = G-03A2,SRT,2D mode;
LVIDd Index(M)	M12201-05,MRUS,Left ventricular internal diameter to BSA Ratio	CardiacCyclePoint =F-32011,SRT,End Diastole; ImageMode = G-0394,SRT,M Mode;

LVAs(A4C)	G-0374,SRT,Left Ventricular Systolic Area	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125208,DCM,Method of Disks, Single Plane
LVAs sax MV(BP Ellipse)	G-0374,SRT,Left Ventricular Systolic Area	ImageMode =G-03A2,SRT,2D mode; ImageView = G-039A,SRT,Parasternal short axis at the Mitral Valve level; Method =125211,DCM,Biplane Ellipse
LVAs sax MV(Bullet)	G-0374,SRT,Left Ventricular Systolic Area	ImageMode =G-03A2,SRT,2D mode; ImageView = G-039A,SRT,Parasternal short axis at the Mitral Valve level; Method =VM12228-01,MRUS,Bullet
LVAs apical(BP Ellipse)	G-0374,SRT,Left Ventricular Systolic Area	ImageMode =G-03A2,SRT,2D mode; Method =125211,DCM,Biplane Ellipse
LV Area(d)	G-0375,SRT,Left Ventricular Diastolic Area	ImageMode =G-03A2,SRT,2D mode;
FAC	G-0376, SRT ,Left Ventricular Fractional Area Change	ImageMode =G-03A2,SRT,2D mode;
LVAd apical(SP Ellipse)	G-0375,SRT,Left Ventricular Diastolic Area	ImageMode =G-03A2,SRT,2D mode; ImageView = G-0395,SRT,Apical long axis;
LVAd sax MV(Mod.Simpson)	G-0375,SRT,Left Ventricular Diastolic Area	ImageMode =G-03A2,SRT,2D mode; ImageView = G-039A,SRT,Parasternal short axis at the Mitral Valve level;
LVAd sax PM	G-0375,SRT,Left Ventricular Diastolic Area	ImageMode =G-03A2,SRT,2D mode; ImageView = G-039B,SRT,Parasternal short axis at the Papillary Muscle level;
LVAd(A2C)	G-0375,SRT,Left Ventricular Diastolic Area	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125208,DCM,Method of Disks, Single Plane
LVAd(A4C)	G-0375,SRT,Left Ventricular Diastolic Area	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125208,DCM,Method of Disks, Single Plane
LVAd sax MV(BP Ellipse)	G-0375,SRT,Left Ventricular Diastolic Area	ImageMode =G-03A2,SRT,2D mode; ImageView = G-039A,SRT,Parasternal short axis at the Mitral Valve level; Method =125211,DCM,Biplane Ellipse

LVAd sax MV(Bullet)	G-0375,SRT,Left Ventricular Diastolic Area	ImageMode =G-03A2,SRT,2D mode; ImageView = G-039A,SRT,Parasternal short axis at the Mitral Valve level; Method =VM12228-01,MRUS,Bullet
LVAd apical(BP Ellipse)	G-0375,SRT,Left Ventricular Diastolic Area	ImageMode =G-03A2,SRT,2D mode; ImageView = G-0395,SRT,Apical long axis; Method =125211,DCM,Biplane Ellipse
LVAd sax Epi(LV Mass T-E)	G-0379,SRT,Left Ventricle Epicardial Diastolic Area, psax pap view	ImageMode =G-03A2,SRT,2D mode; ImageView = G-039B,SRT,Parasternal short axis at the Papillary Muscle level; Method =125222,DCM,Left Ventricle Mass by Truncated Ellipse
LVAd sax Epi(LV Mass A-L)	G-0379,SRT,Left Ventricle Epicardial Diastolic Area, psax pap view	ImageMode =G-03A2,SRT,2D mode; ImageView = G-039B,SRT,Parasternal short axis at the Papillary Muscle level; Method =125205,DCM,Area-Length Single Plane
LVAd sax Endo(LV Mass T-E)	M12240-01,MRUS,Left Ventricle Endocardiac Diastolic Area, psax pap view	ImageMode =G-03A2,SRT,2D mode; ImageView = G-039B,SRT,Parasternal short axis at the Papillary Muscle level; Method =125222,DCM,Left Ventricle Mass by Truncated Ellipse
LVAd sax Endo(LV Mass A-L)	M12240-01,MRUS,Left Ventricle Endocardiac Diastolic Area, psax pap view	ImageMode =G-03A2,SRT,2D mode; ImageView = G-039B,SRT,Parasternal short axis at the Papillary Muscle level; Method =125205,DCM,Area-Length Single Plane
EDV(SP Ellipse)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =125226,DCM,Single Plane Ellipse
EDV(BP Ellipse)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =125211,DCM,Biplane Ellipse
EDV(Bullet)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =VM12228-01,MRUS,Bullet
EDV(Mod.Simpson)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =VM12228-02,MRUS,Method of Disks,Simpson
EDV(Simp SP-A2C)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125208,DCM,Method of Disks, Single Plane
EDV(Simpson BP)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =125207,DCM,Method of Disks, Biplane

EDV(Simp BP-A2C)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125207,DCM,Method of Disks, Biplane
EDV(Simp BP-A4C)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125207,DCM,Method of Disks, Biplane
EDV(Cube-M)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
EDV(Teich-M)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
EDV(Gibson-M)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
EDV(Cube-2D)		

ESV(Simp BP-A2C)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125207,DCM,Method of Disks, Biplane
ESV(Simp BP-A4C)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125207,DCM,Method of Disks, Biplane
ESV(Cube-M)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
ESV(Teich-M)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
ESV(Gibson-M)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
ESV(Cube-2D)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
ESV(Teich-2D)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
ESV(Gibson-2D)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
ESV(Simp SP-A4C)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125208,DCM,Method of Disks, Single Plane
EF(SP Ellipse)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-03A2,SRT,2D mode; Method =125226,DCM,Single Plane Ellipse
EF(BP Ellipse)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-03A2,SRT,2D mode; Method =125211,DCM,Biplane Ellipse
EF(Bullet)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-03A2,SRT,2D mode; Method =VM12228-01,MRUS,Bullet
EF(Mod.Simpson)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-03A2,SRT,2D mode; Method =VM12228-02,MRUS,Method of Disks,Simpson
EF(A2C)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-03A2,SRT,2D mode; Method =125208,DCM,Method of Disks, Single Plane
EF(Simpson BP)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-03A2,SRT,2D mode; Method =125207,DCM,Method of Disks, Biplane

EF2(Simpson BP)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125207,DCM,Method of Disks, Biplane
EF4(Simpson BP)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125207,DCM,Method of Disks, Biplane
EF(Cube-M)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
EF(Teich-M)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
EF(Gibson-M)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
EF(Cube-2D)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
EF(Teich-2D)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
EF(Gibson-2D)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
EF(A4C)	18043-0,LN,Left Ventricular Ejection Fraction	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125208,DCM,Method of Disks, Single Plane
LVOT Area	G-038E,SRT,Cardiovascular Orifice Area	ImageMode =G-03A2,SRT,2D mode;
LVOT Diam(2D)	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode =G-03A2,SRT,2D mode;
LVOT Diam(M)	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode =G-0394,SRT,M Mode;
LVOT Diam(MVA VTI)	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode =G-03A2,SRT,2D mode;
LVOT Diam(AVA VTI)	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode =G-03A2,SRT,2D mode;
LVOT Diam(AVA Vmax)	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode =G-03A2,SRT,2D mode;

LVOT PGmax(LVOT VTI)	20247-3,LN,Peak Gradient	
LVOT PGmean	20256-4,LN,Mean Gradient	
LVOT VTI	20354-7,LN,Velocity Time Integral	
LVOT VTI(MVA VTI)	20354-7,LN,Velocity Time Integral	
LVOT VTI(AVA VTI)	20354-7,LN,Velocity Time Integral	
LVOT AccT	20168-1,LN,Acceleration Time	
LVOT	M12222-01,MRUS, Angle	
LVOT Acc Slope	M12222-02,MRUS, Acceleration Slope	
LV Mass(Cube-M)	18087-7,LN,Left Ventricle Mass	ImageMode =G-0394,SRT,M Mode; Method =125221,DCM,Left Ventricle Mass by M-mode
LV Mass(T-E)	18087-7,LN,Left Ventricle Mass	ImageMode =G-03A2,SRT,2D mode; Method =125222,DCM,Left Ventricle Mass by Truncated Ellipse
LV Mass(A-L)	18087-7,LN,Left Ventricle Mass	ImageMode =G-03A2,SRT,2D mode; Method =125205,DCM,Area-Length Single Plane
LV Mass(Cube-2D)	18087-7,LN,Left Ventricle Mass	ImageMode =G-03A2,SRT,2D mode;
IVRT	18071-1,LN,Left Ventricular Isovolumic Relaxation Time	
IVCT	G-037E,SRT,Left Ventricular Isovolumic Contraction Time	
LVIMP(M)	G-037F,SRT,Left Ventricular Index of Myocardial Performance	ImageMode =G-0394,SRT,M Mode;
LVIMP(Doppler)	G-037F,SRT,Left Ventricular Index of Myocardial Performance	
LVPEP(M)	M12203-01,MRUS,Left Ventricle Pre-Ejection Period	ImageMode =G-0394,SRT,M Mode;
LVPEP(Doppler)	M12203-01,MRUS,Left Ventricle Pre-Ejection Period	
LVET(M)	M12203-02,MRUS,Left Ventricle Ejection Time	ImageMode =G-0394,SRT,M Mode;
LVET(Doppler)	M12203-02,MRUS,Left Ventricle Ejection Time	
LVET LVIMP(M)	M12203-02,MRUS,Left Ventricle Ejection Time	ImageMode =G-0394,SRT,M Mode;

LVET LVIMP(Doppler)	M12203-02,MRUS,Left Ventricle Ejection Time	
LV Mass-I(Cube-M)	C12203-01,MRUS,Left ventricular Mass Weight Index	ImageMode =G-0394,SRT,M Mode; Method =125221,DCM,Left Ventricle Mass by M-mode
LV Mass-I(T-E)	C12203-01,MRUS,Left ventricular Mass Weight Index	ImageMode =G-03A2,SRT,2D mode; Method =125222,DCM,Left Ventricle Mass by Truncated Ellipse
LV Mass-I(A-L)	C12203-01,MRUS,Left ventricular Mass Weight Index	ImageMode =G-03A2,SRT,2D mode; Method =125205,DCM,Area-Length Single Plane
LV Mass-I(Cube-2D)	C12203-01,MRUS,Left ventricular Mass Weight Index	ImageMode =G-03A2,SRT,2D mode;

SV4(Simpson BP)	F-32120,SRT,Stroke Volume	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125207,DCM,Method of Disks, Biplane
SV(Cube-M)	F-32120,SRT,Stroke Volume	ImageMode = G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
SV(Teich-M)	F-32120,SRT,Stroke Volume	ImageMode = G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
SV(Gibson-M)	F-32120,SRT,Stroke Volume	ImageMode = G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
SV(Cube-2D)	F-32120,SRT,Stroke Volume	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
SV(Teich-2D)	F-32120,SRT,Stroke Volume	ImageMode = G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
SV(Gibson-2D)	F-32120,SRT,Stroke Volume	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
SV(A4C)	F-32120,SRT,Stroke Volume	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125208,DCM,Method of Disks, Single Plane
LVOT CO	F-32100,SRT,Cardiac Output	
CO(SP Ellipse)	F-32100,SRT,Cardiac Output	ImageMode = G-03A2,SRT,2D mode; Method =125226,DCM,Single Plane Ellipse

CO4(Simpson BP)	F-32100,SRT,Cardiac Output	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125207,DCM,Method of Disks, Biplane
CO(Cube-M)	F-32100,SRT,Cardiac Output	ImageMode = G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
CO(Teich-M)	F-32100,SRT,Cardiac Output	ImageMode = G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
CO(Gibson-M)	F-32100,SRT,Cardiac Output	ImageMode = G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
CO(Cube-2D)	F-32100,SRT,Cardiac Output	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
CO(Teich-2D)	F-32100,SRT,Cardiac Output	ImageMode = G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
CO(Gibson-2D)	F-32100,SRT,Cardiac Output	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
CO(A4C)	F-32100,SRT,Cardiac Output	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125208,DCM,Method of Disks, Single Plane
LVOT CI	F-32110,SRT,Cardiac Index	
CI(SP Ellipse)	F-32110,SRT,Cardiac Index	ImageMode = G-03A2,SRT,2D mode; Method =125226,DCM,Single Plane Ellipse
CI(BP Ellipse)	F-32110,SRT,Cardiac Index	ImageMode = G-03A2,SRT,2D mode; Method =125211,DCM,Biplane Ellipse
CI(Bullet)	F-32110,SRT,Cardiac Index	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-01,MRUS,Bullet
CI(Mod.Simpson)	F-32110,SRT,Cardiac Index	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-02,MRUS,Method of Disks,Simpson
CI(A2C)	F-32110,SRT,Cardiac Index	ImageMode = G-03A2,SRT,2D mode; Method =125208,DCM,Method of Disks, Single Plane
CI(Simpson BP)	F-32110,SRT,Cardiac Index	ImageMode = G-03A2,SRT,2D mode; Method =125207,DCM,Method of Disks, Biplane
CI2(Simpson BP)	F-32110,SRT,Cardiac Index	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125207,DCM,Method of Disks, Biplane

CI4(Simpson BP)	F-32110,SRT,Cardiac Index	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125207,DCM,Method of Disks, Biplane

SI4(Simpson BP)	F-00078,SRT,Stroke Index	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125207,DCM,Method of Disks, Biplane
SI(Cube-M)	F-00078,SRT,Stroke Index	ImageMode = G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
SI(Teich-M)	F-00078,SRT,Stroke Index	ImageMode = G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
SI(Gibson-M)	F-00078,SRT,Stroke Index	ImageMode = G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
SI(Cube-2D)	F-00078,SRT,Stroke Index	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
SI(Teich-2D)	F-00078,SRT,Stroke Index	ImageMode = G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
SI(Gibson-2D)	F-00078,SRT,Stroke Index	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
SI(A4C)	F-00078,SRT,Stroke Index	G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125208,DCM,Method of Disks, Single Plane

B.41.2. Right Ventricle Measurements

MODALITY Label	***DICOM Mapping***	***Optional Modifiers***
RVDd(2D)	20304-2,LN,Right Ventricular Internal Diastolic Dimension	ImageMode = G-03A2,SRT,2D mode;
RVDd(M)	20304-2,LN,Right Ventricular Internal Diastolic Dimension	ImageMode = G-0394,SRT,M Mode;
RVDs(2D)	20305-9,LN,Right Ventricular Internal Systolic Dimension	ImageMode = G-03A2,SRT,2D mode;
RVDs(M)	20305-9,LN,Right Ventricular Internal Systolic Dimension	ImageMode = G-0394,SRT,M Mode;
RVIMP	G-0381,SRT,Right Ventricular Index of Myocardial Performan.04 (u)-6(l)] 1sg20305	

RVAWs(M)	18157-8,LN,Right Ventricular Anterior Wall Systolic Thickness	ImageMode = G-0394,SRT,M Mode;
RV Major	M12204-01,MRUS,Right ventricular Major	ImageMode = G-03A2,SRT,2D mode;
RV Minor	M12204-02,MRUS,Right ventricular Minor	ImageMode = G-03A2,SRT,2D mode;
RV Area(d)	M12204-03,MRUS,Right ventricular Area at end-diastole	ImageMode = G-03A2,SRT,2D mode;
RV Area(s)	M12204-04,MRUS,Right ventricular Area at end-systole	ImageMode = G-03A2,SRT,2D mode;
RV FAC	C12204-03,MRUS ,Right Ventricular Fractional Area Change	ImageMode = G-03A2,SRT,2D mode;
RVPEP(M)	M12204-05,MRUS,Right Ventricle Pre-Ejection Period	ImageMode = G-0394,SRT,M Mode;
RVPEP(Doppler)	M12204-05,MRUS,Right Ventricle Pre-Ejection Period	
RVET(M)	M12204-06,MRUS,Right Ventricle Ejection Time	ImageMode = G-0394,SRT,M Mode;
RVET(RVIMP)	M12204-06,MRUS,Right Ventricle Ejection Time	
RVET(Doppler)	M12204-06,MRUS,Right Ventricle Ejection Time	
RVPEP/ET(M)	C12204-01,MRUS,Right Ventricle Pre-Ejection Period to Ejection Time Ratio	ImageMode = G-0394,SRT,M Mode;
RVPEP/ET(Doppler)	C12204-01,MRUS,Right Ventricle Pre-Ejection Period to Ejection Time Ratio	
RVOT HR	8867-4,LN,Heart rate	
RVOT Diam(2D)	G-	

B.41.3. Left Atrium Measurements

MODALITY Label	*DICOM Mapping*	*Optional Modifiers*
LA Diam(2D)	29469-4,LN,Left Atrium Antero-posterior Systolic Dimension	ImageMode = G-03A2,SRT,2D mode;
LA Diam(M)	29469-4,LN,Left Atrium Antero-posterior Systolic Dimension	ImageMode = G-0394,SRT,M Mode;
LA Diam(LA Vol A-L)	29469-4,LN,Left Atrium Antero-posterior Systolic Dimension	ImageMode = G-03A2,SRT,2D mode; Method = 125205,DCM,Area-Length Single Plane
LA Diam(LA/Ao-2D)	29469-4,LN,Left Atrium Antero-posterior Systolic Dimension	ImageMode = G-03A2,SRT,2D mode;
LA Diam(LA/Ao-M)	29469-4,LN,Left Atrium Antero-posterior Systolic Dimension	ImageMode = G-0394,SRT,M Mode;
LA/Ao(2D)	17985-3,LN,Left Atrium to Aortic Root Ratio	ImageMode = G-03A2,SRT,2D mode;
LA/Ao(M)	17985-3,LN,Left Atrium to Aortic Root Ratio	ImageMode = G-0394,SRT,M Mode;
LA Area	17977-0,LN,Left Atrium Systolic Area	ImageMode = G-03A2,SRT,2D mode;
LAA(A2C)	17977-0,LN,Left Atrium Systolic Area	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method = 125205,DCM,Area-Length Single Plane
LAA(A4C)	17977-0,LN,Left Atrium Systolic Area	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method = 125205,DCM,Area-Length Single Plane
LA Vol(A-L)	G-0383,SRT,Left Atrium Systolic Volume	ImageMode = G-03A2,SRT,2D mode; Method = 125205,DCM,Area-Length Single Plane
LA Vol(A2C)	G-0383,SRT,Left Atrium Systolic Volume	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method = 125208,DCM,Method of Disks, Single Plane
LA Vol(A4C)	G-0383,SRT,Left Atrium Systolic Volume	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method = 125208,DCM,Method of Disks, Single Plane

LA Major	M12205-01,MRUS,Left atrium Major	ImageMode = G-03A2,SRT,2D mode;
LA Minor	M12205-02,MRUS,Left atrium Minor	ImageMode = G-03A2,SRT,2D mode;
LeftA.AR/LA.M	C12205-01,MRUS,Aortic Root to Left Atrium Ratio	

B.41.4 Right Atrium

(41 80.16 18.6 re W* n BT 652* 9G [(-)] TJ ET O)510.62

AV Diam(2D)	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode = G-03A2,SRT,2D mode;
AV Diam(Qp/Qs)	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode = G-03A2,SRT,2D mode;
AR Fraction	G-0390,SRT,Regurgitant Fraction	Flow Direction =R-42E61,SRT,Regurgitant Flow; Method =125216,DCM,Proximal Isovelocity Surface Area
AR Ved	11653-3,LN,End Diastolic Velocity	Flow Direction = R-42E61,SRT,Regurgitant Flow
AV Vmax	11726-7,LN,Peak Velocity	Flow Direction = R-42047,SRT,Antegrade Flow;
AR Vmax	11726-7,LN,Peak Velocity	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AR Vmax(AR VTI)	11726-7,LN,Peak Velocity	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AR Vmax(AR PHT)	11726-7,LN,Peak Velocity	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AR Vmax(PISA AR)	11726-7,LN,Peak Velocity	Flow Direction = R-42E61,SRT,Regurgitant Flow; Method =125216,DCM,Proximal Isovelocity Surface Area
AV Vmax(AV VTI)	11726-7,LN,Peak Velocity	Flow Direction = R-42047,SRT,Antegrade Flow;
AV Vmean	20352-1,LN,Mean Velocity	Flow Direction = R-42047,SRT,Antegrade Flow;
AR Vmean	20352-1,LN,Mean Velocity	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AV PGmax	20247-3,LN,Peak Gradient	Flow Direction = R-42047,SRT,Antegrade Flow;
AR PGmax	20247-3,LN,Peak Gradient	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AV PGmax(AV VTI)	20247-3,LN,Peak Gradient	Flow Direction = R-42047,SRT,Antegrade Flow;
AR PGmax(AR VTI)	20247-3,LN,Peak Gradient	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AR PGmax(AR PHT)	20247-3,LN,Peak Gradient	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AV PGmean	20256-4,LN,Mean Gradient	Flow Direction = R-42047,SRT,Antegrade Flow;
AR PGmean	20256-4,LN,Mean Gradient	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AV VTI	20354-7,LN,Velocity Time Integral	Flow Direction = R-42047,SRT,Antegrade Flow;
AR VTI	20354-7,LN,Velocity Time Integral	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AV VTI(Qp/Qs)	20354-7,LN,Velocity Time Integral	Flow Direction = R-42047,SRT,Antegrade Flow;
AR VTI(PISA AR)	20354-7,LN,Velocity Time Integral	Flow Direction = R-42E61,SRT,Regurgitant Flow; Method =125216,DCM,Proximal Isovelocity Surface Area
AV VTI(AVA VTI)	20354-7,LN,Velocity Time Integral	Flow Direction = R-42047,SRT,Antegrade Flow;
AR PHT	20280-4,LN,Pressure Half-Time	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AV AccT	20168-1,LN,Acceleration Time	Flow Direction = R-42047,SRT,Antegrade Flow;
AV DecT	20217-6,LN,Deceleration Time	Flow Direction = R-42047,SRT,Antegrade Flow;
AR DcT	20217-6,LN,Deceleration Time	Flow Direction = R-42E61,SRT,Regurgitant Flow;

MV E-F Slope	18040-6,LN,Mitral Valve E-F Slope by M-Mode	ImageMode = G-0394,SRT,M Mode ;
EPSS(2D)	18036-4,LN,Mitral Valve EPSS, E wave	ImageMode = G-03A2,SRT,2D mode ;
EPSS(M)	18036-4,LN,Mitral Valve EPSS, E wave	ImageMode = G-0394,SRT,M Mode ;
MV A Dur	G-0385,SRT,Mitral Valve A-Wave Duration	
MV C-O dur(M)	G-0387,SRT,Mitral Valve Closure to Opening Time	ImageMode = G-0394,SRT,M Mode ;
MV C-O dur(Doppler)	G-0387,SRT,Mitral Valve Closure to Opening Time	
dP/dt	18035-6,LN,Mitral Regurgitation Dp/dt derived from Mitral Reg. velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
MCS(2D)	M12207-01,MRUS,Mitral valve cusp separate distance	ImageMode = G-03A2,SRT,2D mode ;
MCS(M)	M12207-01,MRUS,Mitral valve cusp separate distance	ImageMode = G-0394,SRT,M Mode ;
MV D-E Slope	M12207-02,MRUS,Mitral Valve D-E Slope	ImageMode = G-0394,SRT,M Mode ;
MV A Amp	M12207-03,MRUS,Amplitude of the A wave	ImageMode = G-0394,SRT,M Mode ;
MV E Amp	M12207-04,MRUS,Amplitude of the E wave	ImageMode = G-0394,SRT,M Mode ;
MV DE	M12207-05,MRUS,Amplitude from D Point to E Point	ImageMode = G-0394,SRT,M Mode ;
MV E PG	M12207-06,MRUS,Mitral Valve E-wave Pressure Gradient	
MV A PG	M12207-07,MRUS,Mitral Valve A-wave Pressure Gradient	
MV E VTI	M12207-08,MRUS,E wave Velocity Time Integral	Flow Direction =R-42047,SRT,Antegrade Flow;
MV A VTI	M12207-09,MRUS,A wave Velocity Time Integral	Flow Direction =R-42047,SRT,Antegrade Flow;
MV E Dur	M12207-10,MRUS,Mitral Valve E-Wave Duration	
Sa(medial)	M12207-11,MRUS,Systolic Velocity of the Mitral Annulus(medial)	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
Ea(medial)	M12207-12,MRUS,Early diastolic velocity of the mitral annulus(medial)	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
Aa(medial)	M12207-13,MRUS,Late diastolic velocity of the mitral annulus(medial)	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
Ea/Aa(medial)	M12207-14,MRUS,Early diastolic velocity to Late diastolic velocity Ratio	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;

Ata(medial)	M12207-15,MRUS,Acceleration Time of Early diastolic velocity	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
Ara(medial)	M12207-16,MRUS,Acceleration Rate of Early diastolic velocity	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
Dta(medial)	M12207-17,MRUS,Deceleration Time of Early diastolic velocity	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
Dra(medial)	M12207-18,MRUS,Deceleration Rate of Early diastolic velocity	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
Sa(lateral)	M12207-19,MRUS,Systolic Velocity of the Mitral Annulus(lateral)	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
Ea(lateral)	M12207-20,MRUS,Early diastolic velocity of the mitral annulus(lateral)	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
Aa(lateral)	M12207-21,MRUS,Late diastolic velocity of the mitral annulus(lateral)	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;

Ea/Aa(lateral)

MS Als.Vel	M12207-28,MRUS,Mitral Stenosis Aliasing Velocity	ImageMode = R-409E2, SRT, Doppler Color Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area
MS Vmax	M12207-29,MRUS,Mitral Stenosis Maximum Velocity	
MS Vmax(PISA MS)	M12207-29,MRUS,Mitral Stenosis Maximum Velocity	Method = 125216,DCM,Proximal Isovelocity Surface Area
MS Area	M12207-30,MRUS,Mitral Stenosis Area	Method = 125216,DCM,Proximal Isovelocity Surface Area
MS Pgmax	C12207-01,MRUS,Mitral Stenosis Maximum Pressure Gradient	
MV HR	8867-4,LN,Heart rate	
MR Flow	33878-0,LN,Volume Flow	Flow Direction =R-42E61,SRT,Regurgitant Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area
MR Flow Rate	34141-2,LN,Peak Instantaneous Flow Rate	Flow Direction =R-42E61,SRT,Regurgitant Flow; ImageMode = R-409E2, SRT, Doppler Color Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area
MVA	G-038E,SRT,Cardiovascular Orifice Area	Flow Direction =R-42047,SRT,Antegrade Flow; ImageMode = G-03A2,SRT,2D mode; Method = 125220,DCM,Planimetry
MVA(PHT)	G-038E,SRT,Cardiovascular Orifice Area	Flow Direction =R-42047,SRT,Antegrade Flow; Method = 125210,DCM,Area by Pressure Half-Time
MVA(VTI)	G-038E,SRT,Cardiovascular Orifice Area	Flow Direction =R-42047,SRT,Antegrade Flow; Method = 125215,DCM,Continuity Equation by Velocity Time Integral
MV Diam	G-038F,SRT,Cardiovascular Orifice Diameter	Flow Direction =R-42047,SRT,Antegrade Flow; ImageMode = G-03A2,SRT,2D mode;

B.41.7. Pulmonic Valve Measurements

MODALITY Label	*DICOM Mapping*	*Optional Modifiers*
PV	M12222-01,MRUS,Angle	Flow Direction =R-42047,SRT,Antegrade Flow;
PR	M12222-01,MRUS,Angle	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PV HR	8867-4,LN,Heart rate	
PR Flow	33878-0,LN,Volume Flow	Flow Direction =R-42E61,SRT,Regurgitant Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area
PR Flow Rate	34141-2,LN,Peak Instantaneous Flow Rate	Flow Direction =R-42E61,SRT,Regurgitant Flow; ImageMode = R-409E2, SRT, Doppler Color Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area
PV Diam	G-038F,SRT,Cardiovascular Orifice Diameter	Flow Direction =R-42047,SRT,Antegrade Flow; ImageMode = G-03A2,SRT,2D mode;
PV Diam(Qp/Qs)	G-038F,SRT,Cardiovascular Orifice Diameter	Flow Direction =R-42047,SRT,Antegrade Flow; ImageMode = G-03A2,SRT,2D mode;
PR Fraction	G-0390,SRT,Regurgitant Fraction	Flow Direction =R-42E61,SRT,Regurgitant Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area
PR Ved	11653-3,LN,End Diastolic Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PR Ved(PAEDP)	11653-3,LN,End Diastolic Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PV Vmax	11726-7,LN,Peak Velocity	Flow Direction =R-42047,SRT, Antegrade Flow;
PR Vmax	11726-7,LN,Peak Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PV Vmax(PV VTI)	11726-7,LN,Peak Velocity	Flow Direction =R-42047,SRT, Antegrade Flow;
PR Vmax(PR VTI)	11726-7,LN,Peak Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PR Vmax(PR PHT)	11726-7,LN,Peak Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PR Vmax(PISA PR)	11726-7,LN,Peak Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PV Vmean	20352-1,LN,Mean Velocity	Flow Direction =R-42047,SRT, Antegrade Flow;
PR Vmean	20352-1,LN,Mean Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PV PGmax	20247-3,LN,Peak Gradient	Flow Direction =R-42047,SRT,Antegrade Flow;
PR PGmax	20247-3,LN,Peak Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PV PGmax(PV VTI)	20247-3,LN,Peak Gradient	Flow Direction =R-42047,SRT, Antegrade Flow;
PR PGmax(PR VTI)	20247-3,LN,Peak Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PR PGmax(PR PHT)	20247-3,LN,Peak Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PV PGmean	20256-4,LN,Mean Gradient	Flow Direction =R-42047,SRT,Antegrade Flow;
PR PGmean	20256-4,LN,Mean Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;

PV VTI	20354-7,LN,Velocity Time Integral	Flow Direction =R-42047,SRT,Antegrade Flow;
PR VTI	20354-7,LN,Velocity Time Integral	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PV VTI(Qp/Qs)	20354-7,LN,Velocity Time Integral	Flow Direction =R-42047,SRT,Antegrade Flow;
PR VTI(PISA PR)	20354-7,LN,Velocity Time Integral	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PR PHT	20280-4,LN,Pressure Half-Time	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PV AccT	20168-1,LN,Acceleration Time	Flow Direction =R-42047,SRT,Antegrade Flow;
PR DecT	20217-6,LN,Deceleration Time	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PR Dec Slope	20216-8,LN,Deceleration Slope	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PV Acc Slope	M12222-02,MRUS,Acceleration Slope	Flow Direction =R-42047,SRT,Antegrade Flow;
PR Rad	M12222-06,MRUS,Flow Radius	Flow Direction =R-42E61,SRT,Regurgitant Flow; ImageMode = R-409E2, SRT, Doppler Color Flow;
PR Als.Vel	M12222-05,MRUS,Aliasing Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow; ImageMode = R-409E2, SRT, Doppler Color Flow;
PR PGed	M12222-08,MRUS,Presure Gradient at end-Diastole	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PR PGed(PAEDP)	M12222-08,MRUS,Presure Gradient at end-Diastole	Flow Direction =R-42E61,SRT,Regurgitant Flow;
PV SV	F-32120,SRT,Stroke Volume	
PV CO	F-32100,SRT,Cardiac Output	
PV CI	F-32110,SRT,Cardiac Index	
PV SI	F-00078,SRT,Stroke Index	
PISA	M12222-09,MRUS, Effective Regurgitant Orifice Area	

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B.41.8. Tricuspid Valve Measurements

MODALITY Label	*DICOM Mapping*	*Optional Modifiers*

TV E/A(TV E/A)	18039-8,LN,Tricuspid Valve E to A Ratio	
TV C-O dur	G-0389,SRT,Tricuspid Valve Closure to Opening Time	
TV	M12222-01,MRUS,Angle	Flow Direction =R-42047,SRT,Antegrade Flow;
TR	M12222-01,MRUS,Angle	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TV HR	8867-4,LN,Heart rate	
TR Flow	33878-0,LN,Volume Flow	Flow Direction =R-42E61,SRT,Regurgitant Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area
TR Flow Rate	34141-2,LN,Peak Instantaneous Flow Rate	

TR PGmax	20247-3,LN,Peak Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TR PGmax(TR VTI)	20247-3,LN,Peak Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TR PGmax(RVSP)	20247-3,LN,Peak Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TV PGmean	20256-4,LN,Mean Gradient	Flow Direction =R-42047,SRT, Antegrade Flow;
TR PGmean	20256-4,LN,Mean Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TV VTI	20354-7,LN,Velocity Time Integral	Flow Direction =R-42047,SRT, Antegrade Flow;
TR VTI	20354-7,LN,Velocity Time Integral	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TR VTI(PISA TR)	20354-7,LN,Velocity Time Integral	Flow Direction =R-42E61,SRT,Regurgitant Flow; Method =125216,DCM,Proximal Isovelocity Surface Area
TV PHT	20280-4,LN,Pressure Half-Time	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TV AccT	20168-1,LN,Acceleration Time	Flow Direction =R-42047,SRT, Antegrade Flow;
TV DecT	20217-6,LN,Deceleration Time	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TV Dec Slope	20216-8,LN,Deceleration Slope	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TV A Dur	M12208-01,MRUS,Tricuspid Valve E-Wave Duration	Flow Direction =R-42047,SRT, Antegrade Flow;
TV E PG	M12208-02,MRUS,Tricuspid Valve E Wave Pressure Gradient	Flow Direction =R-42047,SRT, Antegrade Flow;
TV A PG	M12208-03,MRUS,Tricuspid Valve A Wave Pressure Gradient	Flow Direction =R-42047,SRT, Antegrade Flow;
TV Acc Slope	M12222-02,MRUS,Acceleration Slope	Flow Direction =R-42047,SRT, Antegrade Flow;
TV AccT/DecT	M12222-07,MRUS,Acceleration Time/Deceleration Time	Flow Direction =R-42047,SRT, Antegrade Flow;
TR Rad	M12222-06,MRUS,Flow Radius	Flow Direction =R-42E61,SRT,Regurgitant Flow; ImageMode = R-409E2, SRT, Doppler Color Flow;
TR Als.Vel	M12222-02,MRUS,Aliasing Velocity	ImageMode = R-409E2, SRT, Doppler Color Flow;
TV SV	F-32120,SRT,Stroke Volume	
TV CO	F-32100,SRT,Cardiac Output	
TV CI	F-32110,SRT,Cardiac Index	
TV SI	F-00078,SRT,Stroke Index	
PISA	M12222-09,MRUS, Effective Regurgitant Orifice Area	

B.41.9. Aorta Measurements

MODALITY Label	*DICOM Mapping*	*Optional Modifiers*
Ao Diam(2D)	18015-8,LN,Aortic Root Diameter	ImageMode = G-03A2,SRT,2D mode;
Ao Diam(M)	18015-8,LN,Aortic Root Diameter	ImageMode = G-0394,SRT,M Mode;
Ao Diam(LA/Ao-2D)	18015-8,LN,Aortic Root Diameter	ImageMode = G-03A2,SRT,2D mode;
Ao Diam(LA/Ao-M)	18015-8,LN,Aortic Root Diameter	ImageMode = G-0394,SRT,M Mode;
Ao Arch Diam(2D)	18011-7,LN,Aortic Arch Diameter	ImageMode = G-03A2,SRT,2D mode;
Ao Arch Diam(M)	18011-7,LN,Aortic Arch Diameter	ImageMode = G-0394,SRT,M Mode;
Ao Asc Diam(2D)	18012-5,LN,Ascending Aortic Diameter	ImageMode = G-03A2,SRT,2D mode;
Ao Asc Diam(M)	18012-5,LN,Ascending Aortic Diameter	ImageMode = G-0394,SRT,M Mode;
Ao Isthmus(2D)	18014-1,LN,Aortic Isthmus Diameter	ImageMode = G-03A2,SRT,2D mode;
Ao Isthmus(M)	18014-1,LN,Aortic Isthmus Diameter	ImageMode = G-0394,SRT,M Mode;
Ao Desc Diam(2D)	18013-3,LN,Descending Aortic Diameter	ImageMode = G-03A2,SRT,2D mode;
Ao Desc Diam(M)	18013-3,LN,Descending Aortic Diameter	ImageMode = G-0394,SRT,M Mode;
Ao st junct(2D)	M12212-01,MRUS,Aortic Sinotubular junction Diameter	ImageMode = G-03A2,SRT,2D mode;
Ao st junct(M)	M12212-01,MRUS,Aortic Sinotubular junction Diameter	ImageMode = G-0394,SRT,M Mode;
Ao Sinus Diam(2D)	M12212-02,MRUS,Aortic Sinus Diameter	ImageMode = G-03A2,SRT,2D mode;
Ao Sinus Diam(M)	M12212-02,MRUS,Aortic Sinus Diameter	ImageMode = G-0394,SRT,M Mode;
Duct Art Diam	M12212-03,MRUS,Ductus Artery Diameter	ImageMode = G-03A2,SRT,2D mode;
Pre Ductal	M12212-04,MRUS,Previous Ductal Diameter	ImageMode = G-03A2,SRT,2D mode;
LCA	M12212-05,MRUS,Left Coronary Artery Diameter	ImageMode = G-03A2,SRT,2D mode;
RCA	M12212-06,MRUS,Right Coronary Artery Diameter	ImageMode = G-03A2,SRT,2D mode;
AAo Vmax	11726-7,LN,Peak Velocity	
DAo Vmax	11726-7,LN,Peak Velocity	
AAo PGmax	20247-3,LN,Peak Gradient	
DAo PGmax	20247-3,LN,Peak Gradient	

B.41.10. Pulmonary Artery Measurements

MODALITY Label	*DICOM Mapping*	*Optional Modifiers*
MPA Diam(2D)	18020-8,LN,Main Pulmonary Artery Diameter	ImageMode =G-03A2,SRT,2D mode;
MPA Diam(M)	18020-8,LN,Main Pulmonary Artery Diameter	ImageMode =G-0394,SRT,M Mode;

RPA Diam(2D)	18021-6,LN,Right Pulmonary Artery Diameter	ImageMode =G-03A2,SRT,2D mode;
RPA Diam(M)	18021-6,LN,Right Pulmonary Artery Diameter	ImageMode =G-0394,SRT,M Mode;
LPA Diam(2D)	18019-0,LN,Left Pulmonary Artery Diameter	ImageMode =G-03A2,SRT,2D mode;
LPA Diam(M)	18019-0,LN,Left Pulmonary Artery Diameter	ImageMode =G-0394,SRT,M Mode;
MPA Vmax	G-038A,SRT,Main Pulmonary Artery Peak Velocity	
Post Ductal	M12210-01,MRUS,Posterior ductal Diameter	ImageMode =G-03A2,SRT,2D mode;
PAEDP	C12210-01,MRUS,Pulmonary Artery End Diastolic Pressure	
LPA Vmax	11726-7,LN,Peak Velocity	
RPA Vmax	11726-7,LN,Peak Velocity	
MPA PGmax	20247-3,LN,Peak Gradient	
LPA PGmax	20247-3,LN,Peak Gradient	
RPA PGmax	20247-3,LN,Peak Gradient	

B.41.11. Vena Cava Measurements

MODALITY Label	***DICOM Mapping***	***Optional Modifiers***
IVC Diam(Insp)	18006-7,LN,Inferior Vena Cava Diameter	RespiratoryCyclePoint=F-20010,SRT, Inspiration; ImageMode =G-03A2,SRT,2D mode;
IVC Diam(Expir)	18006-7,LN,Inferior Vena Cava Diameter	RespiratoryCyclePoint=F-20020,SRT, Expiration; ImageMode =G-03A2,SRT,2D mode;
SVC Diam(Insp)	M12215-01,MRUS,Superior Vena Cava Diameter	RespiratoryCyclePoint=F-20010,SRT, Inspiration; ImageMode =G-03A2,SRT,2D mode;
SVC Diam(Expir)	M12215-01,MRUS,Superior Vena Cava Diameter	RespiratoryCyclePoint=F-20020,SRT, Expiration; ImageMode =G-03A2,SRT,2D mode;
IVC Vel(Insp)	M12215-02,MRUS,Inferior Vena Cava Velocity	RespiratoryCyclePoint=F-20010,SRT, Inspiration;

IVC Expiration PG	C12215-01,MRUS,Inferior Vena Cava Pressure Gradient	RespiratoryCyclePoint=F-20020,SRT, Expiration;
SVC Inspiration PG	C12215-02,MRUS,Superior Vena Cava Pressure Gradient	RespiratoryCyclePoint=F-20010,SRT, Inspiration;
SVC Expiration PG	C12215-02,MRUS,Superior Vena Cava Pressure Gradient	RespiratoryCyclePoint=F-20020,SRT, Expiration;
IVC-CI	C12215-03,MRUS ,Collapsible index of inferior vena cava	ImageMode =G-03A2,SRT,2D mode;
IVC-DI	C12215-04,MRUS ,Distensibility index of inferior vena cava	ImageMode =G-03A2,SRT,2D mode;
SVC-CI	C12215-05, MRUS,Collapsible index of superior vena cava	ImageMode =G-03A2,SRT,2D mode;
SVC-DI	C12215-06,MRUS ,Distensibility index of superior vena cava	ImageMode =G-03A2,SRT,2D mode;
IVC Depth(Insp)	M12215-04,MRUS,Inferior Vena Cava Depth	RespiratoryCyclePoint=F-20010,SRT, Inspiration; ImageMode =G-03A2,SRT,2D mode;
IVC Depth(Expir)	M12215-04,MRUS,Inferior Vena Cava Depth	RespiratoryCyclePoint=F-20020,SRT, Expiration; ImageMode =G-03A2,SRT,2D mode;
SVC Depth(Insp)	M12215-05,MRUS,Superior Vena Cava Depth	RespiratoryCyclePoint=F-20010,SRT, Inspiration; ImageMode =G-03A2,SRT,2D mode;
SVC Depth(Expir)	M12215-05,MRUS,Superior Vena Cava Depth	RespiratoryCyclePoint=F-20020,SRT, Expiration; ImageMode =G-03A2,SRT,2D mode;

B.41.12. Pulmonary Venous Structure Measurements

MODALITY Label	***DICOM Mapping***	***Optional Modifiers***
PVein A Dur	G-038B,SRT,Pulmonary Vein A-Wave Duration	
PVein D VTI	G-038D,SRT,Pulmonary Vein D-Wave Velocity Time Integral	
PVein S VTI	G-038C,SRT,Pulmonary Vein S-Wave Velocity Time Integral	
PVein S Vel	M12214-01,MRUS,Pulmonary Vein S wave flow Velocity	
PVein D Vel	M12214-02,MRUS,Pulmonary Vein D-wave flow Velocity	
PVein A Vel	M12214-03,MRUS,Pulmonary Vein A-wave flow Velocity	
PVein DecT	M12214-04,MRUS,Pulmonary Vein Deceleration Time	

ASD Diam	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode =G-03A2,SRT,2D mode;
VSD Vmax	11726-7,LN,Peak Velocity	
ASD Vmax	11726-7,LN,Peak Velocity	
VSD PGmax	20247-3,LN,Peak Gradient	
ASD PGmax	20247-3,LN,Peak Gradient	

B.41.15. Pericardial Disease Measurements

MODALITY Label	*DICOM Mapping*	*Optional Modifiers*
PEd(2D)	C90000-01,MRUS,Pericard Effusion at end-diastole	ImageMode =G-03A2,SRT,2D mode;
PEd(M)	C90000-01,MRUS,Pericard Effusion at end-diastole	ImageMode =G-0394,SRT,M Mode;
PEs(2D)	C90000-02,MRUS,Pericard Effusion at end-systole	ImageMode =G-03A2,SRT,2D mode;
PEs(M)	C90000-02,MRUS,Pericard Effusion at end-systole	ImageMode =G-0394,SRT,M Mode;
MR Tau Bai	SRT,T-35313,Mitral Annulus	

B.41.16. Heart Rate Measurements

MODALITY Label	*DICOM Mapping*	*Optional Modifiers*
HR	8867-4 LN Heart rate	Image Mode = G-0394,SRT,M Mode
HRSP.Ellipse	8867-4 LN Heart rate	Method =125226,DCM,Single Plane Ellipse
HRBP.Ellipse	8867-4 LN Heart rate	Method=125211,DCM,Biplane Ellipse
HRBullet	8867-4 LN Heart rate	Method =VM12228-01,MRUS,Bullet
HRMod.Simp	8867-4 LN Heart rate	Method= VM12228-02,MRUS,Method of Disks,Simpson
HRSimp.SP	8867-4 LN Heart rate	Method= 125208,DCM,Method of Disks, Single Plane
HRSimp.SP.A4C	8867-4 LN Heart rate	Method= 125208,DCM,Method of Disks, Single Plane
HRSimp.BP	8867-4 LN Heart rate	Method= 125207,DCM,Method of Disks, Biplane
HRTeich.2D	8867-4 LN Heart rate	Method= 125209,DCM,Teichholz
HRTeich.M	8867-4 LN Heart rate	Method= 125209,DCM,Teichholz
HRCube.2D	8867-4 LN Heart rate	Method= 125206,DCM,Cube Metho
[redacted]	867-4 LN Heart rate	Method= 125206,DCM,Cube Method

9	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ ! $SectionLaterality = EV (G- □ $Anatomy = DCID (12105) Intracranial Cerebral Vessels	
10	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ ! $SectionLaterality = EV (G- □ □ $Anatomy = DCID (12105) Intracranial Cerebral Vessels	
11	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ ! $SectionLaterality = EV (G-A103, □ $Anatomy = DCID (12106) Intracranial Cerebral Vessels (unilateral)	
12	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ $SectionLaterality = EV (G- □ $Anatomy = DCID (12104) Extracranial Arteries $AnatomyRatio = DCID (12123) Carotid Ratios	

13	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ $SectionLaterality = EV (G- □ □ $Anatomy = DCID (12104) Extracranial Arteries $AnatomyRatio = DCID (12123) Carotid Ratios	
14	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ $SectionLaterality = EV (G- □ $Anatomy = DCID (12109) Lower Extremity Arteries $AnatomyRatio = 8581-1,LN,Tibial/brachial index	
15	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ $SectionLaterality = EV (G- □ □ $Anatomy = DCID (12109) Lower Extremity Arteries $AnatomyRatio = 8581-1,LN,Tibial/brachial index	
15	>	CONTAINS	INCLUDE	DTID (5103_3_1) Vascular Ultrasound Section		$SectionScope = DT (T-47040, SR	

16	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ ! $SectionLaterality = EV (G- □ $Anatomy = DCID (12110) Lower Extremity Veins	
17	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ ! $SectionLaterality = EV (G- □ □ $Anatomy = DCID (12110) Lower Extremity Veins	
18	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ $SectionLaterality = EV (G- □ $Anatomy = DCID (12107) Upper Extremity Arteries	
19	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ $SectionLaterality = EV (G- □ □ $Anatomy = DCID (12107) Upper Extremity Arteries	

20	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ $SectionLaterality = EV (G- □ $Anatomy = DCID (SELFCID-2) Upper Extremity Arteries(unilateral)	
21	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ ! $SectionLaterality = EV (G- □ $Anatomy = DCID (12108) Upper Extremity Veins	
22	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ ! $SectionLaterality = EV (G- □ □ $Anatomy = DCID (12108) Upper Extremity Veins	
23	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ tery $SectionLaterality = EV (G- □ $Anatomy = DCID (12111) Abdominal Arteries (lateral)	

24	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ $SectionLaterality = EV (G- □ □ $Anatomy = DCID (12111) Abdominal Arteries (lateral)	
25	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ $SectionLaterality = EV (G-A103, □ $Anatomy = DCID (12112) Abdominal Arteries (unilateral)	
26	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ ! $SectionLaterality = EV (G- □ $Anatomy = DCID (12113) Abdominal Veins (lateral)	
27	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ ! $SectionLaterality = EV (G- □ □ $Anatomy = DCID (12113) Abdominal Veins (lateral)	

1		CONTEXT					
2	>	HAS OBS CONTEXT	PNAME	EV (121008,DCM,		Operator from Info	
3	>	HAS OBS CONTEXT	TEXT	EV (121009,DCM, Organizat		Institution Name (0008,0080) of the General Equipment Module	
4	>	HAS OBS CONTEXT	CODE	EV (121010,DCM, Role in the		(121093, DCM, "Sonographer")	
5	>	HAS OBS CONTEXT	CODE	EV (121024, DCM,)		(121025, DCM,	
6	>	HAS OBS CONTEXT	PNAME	EV (121029,DCM,		(0010,0010) in Patient Module	
7	>	HAS OBS CONTEXT	DATE	EV (121031,DCM,		Date (0010,0030) in Patient Module	
8	>	HAS OBS CONTEXT	CODE	EV (121032,DCM,		value equivalent to (0010,0040) in Patient Module	
9	>	HAS OBS CONTEXT	NUM	EV (121033,DCM,		(0010,1010) in Patient Study Module	

C.3. TID (5101) Vascular Patient Characteristics

	NL	**Rel with Parent**	**VT**	**Concept Name**	**Used in MODALITY**	**Value Set Constraint**	**Comment**
1			CONTAINER	EV (121118, DCM,			
2	>	CONTAINS	NUM	EV (121033, DCM, "Subject Age		Units = DCID (7456) Units of Measure for Age	

3 > CONTAINS CODE EV (121032, DCM,

7	>			DCM, Comment")				From report interface Comment
8	>	CONTAINS		(I12101-05,MRUS,"Prompt")				From report interface Prompt
9	>	CONTAINS		(121071,DCM,"Findings")				From report interface Findings
10	>	CONTAINS		(T-45100, SNM3, Common carotid artery)				
11	>>	CONTAINS	CONTAINER	(FG3495-01, MRUS, Plaque Description)				
12	>>>							

29	>>>	CONTAINS	TEXT	(G-A100,SNM3,Right)			
30	>>>	CONTAINS	TEXT	(G-A101,SNM3,Left)			
31	>	CONTAINS	CONTAINER	(T-45200,SRT,External Carotid Artery)			ECA
32	>>	CONTAINS	CONTAINER	(FG3495-01, MRUS, Plaque Description)			
33	>>>	CONTAINS	TEXT	(G-A100,SNM3,Right)			
34	>>>	CONTAINS	TEXT	(G-A101,SNM3,Left)			
35	>>	CONTAINS	CONTAINER	(FG3495-02, MRUS, Plaque Area)			
36	>>>	CONTAINS	TEXT	(G-A100,SNM3,Right)			
37	>>>	CONTAINS	TEXT	(G-A101,SNM3,Left)			
38	>	CONTAINS	CONTAINER	(T-45700 ,SRT ,Vertebral Artery)			
39	>>	CONTAINS	TEXT	(G-A100,SNM3,Right)			
40	>>	CONTAINS	TEXT	(G-A101,SNM3,Left)			
41	>	CONTAINS	CONTAINER	(T-46100,SRT,Subclavian Artery)			
42	>>	CONTAINS	TEXT	(G-A100,SNM3,Right)			
43	>>	CONTAINS	TEXT	(G-A101,SNM3,Left)			
44	>	CONTAINS	TEXT	(T-46010,SRT,Brachiocephalic trunk)			

C.5. TID (5103) Vascular Ultrasound Section

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EQ [illegible]			

4	>	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group		$AnatomyGroup = $Anatomy= DCID (12105) Intracranial Cerebral Vessels	
5	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = $AnatomyRatio	Only for Artery of neck

C.6. TID (5103_3_1) Vascular Ultrasound Section

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER				
2	>	HAS CONCEPT MOD	CODE	EV (G- □		$SectionScope	
3	>	CONTAINS	NUM	EV (M12119-10,MRUS, pseudoaneurys			
4	>	CONTAINS	NUM	EV (M12119-09,MRUS, pseudoaneurysm Width			
5	>	CONTAINS	NUM	EV (M12119-10,MRUS, pseudoaneurysm Height			
6	>	CONTAINS	NUM	EV (M12119-10,MRUS, pseudoaneurysm Lengh			

C.7. TID (5104) Vascular Ultrasound Measurement Group

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment

1			CONTAINER	$AnatomyGroup			
2	>	HAS CONCEPT MOD	CODE	EV (G-A1F8, SRT,		DCID (12116) Vessel Segment Modifiers	
3	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = DCID (12119) Vascular Ultrasound Property $Derivation = DCID (3627) Measurement Type	
4	>>	HAS CONCEPT MOD	CODE	EV (R-4089A, □		DCID (12233) Cardiac Phase	
5	>>	HAS CONCEPT MOD	CODE	EV (R-41FFC, □ period related to		DT (G-A491, SRT, "Post-prandial")	

C.8. CID (12104) Extracranial Arteries

CSD	CV	Code Meaning
SRT	T-45170	Carotid Bulb
SRT	T-45100	Common Carotid Artery
SRT	T-45200	External Carotid Artery
SRT	T-45300	Internal Carotid Artery
SRT	T-46100	Subclavian Artery
SRT	T-45700	Vertebral Artery
SRT	T-45160	Carotid Bifurcation
MRUS	A12104-1	Terminal Vertebral Artery
MRUS	A12104-2	Carotid Graft 1 Anastomosis
MRUS	A12104-3	Carotid Graft 1 Graft
MRUS	A12104-4	Carotid Graft 2 Anastomosis
MRUS	A12104-5	Carotid Graft 2 Graft
MRUS	A12104-6	Carotid Graft 3 Anastomosis
MRUS	A12104-7	Carotid Graft 3 Graft
MRUS	A12104-8	Carotid Stent 1
MRUS	A12104-9	Carotid Stent 2
MRUS	A12104-10	Carotid Stent 3

CSD	CV	Code Meaning
MRUS	A12104-11	Carotid Graft 1 Native Inflow
MRUS	A12104-12	Carotid Graft 1 Anastomosis Pre

CSD	CV	Code Meaning
MRUS	A12104-45	Carotid Bulb Intima Media Thickness
MRUS	A12104-46	Internal Carotid Artery Intima Media Thickness
MRUS	A12104-47	External Carotid Artery Intima Media Thickness

C.9. CID (12105) Intracranial Cerebral Vessels

CSD	CV	Code Meaning
SRT	T-45540	Anterior Cerebral Artery
SRT	T-45600	Middle Cerebral Artery
SRT	T-45900	Posterior Cerebral Artery
SRT	T-45320	Posterior Communicating Artery
	T-45530	Anterior Communicating Artery
	T-45600	Middle Cerebral Artery

CSD	CV	Code Meaning
		Aneurysm
MRUS	A12107-19	Brachial Artery Aneurysm
MRUS	A12107-20	Radial Artery Aneurysm
MRUS	A12107-21	Ulnar Artery Aneurysm
MRUS	A12107-22	Brachiocephalic Aneurysm
MRUS	A12107-24	Mammary A Stenosis
MRUS	A12107-26	Brachial Artery Stenosis
MRUS	A12107-27	Radial Artery Stenosis
MRUS	A12107-28	Ulnar Artery Stenosis
MRUS	A12107-29	Upper External Arterial Stenosis 1
MRUS	A12107-30	Upper External Arterial Stenosis 2
MRUS	A12107-31	Upper External Arterial Stenosis 3
MRUS	A12107-32	Upper External Arterial Stenosis 4
MRUS	A12107-33	Upper Artery

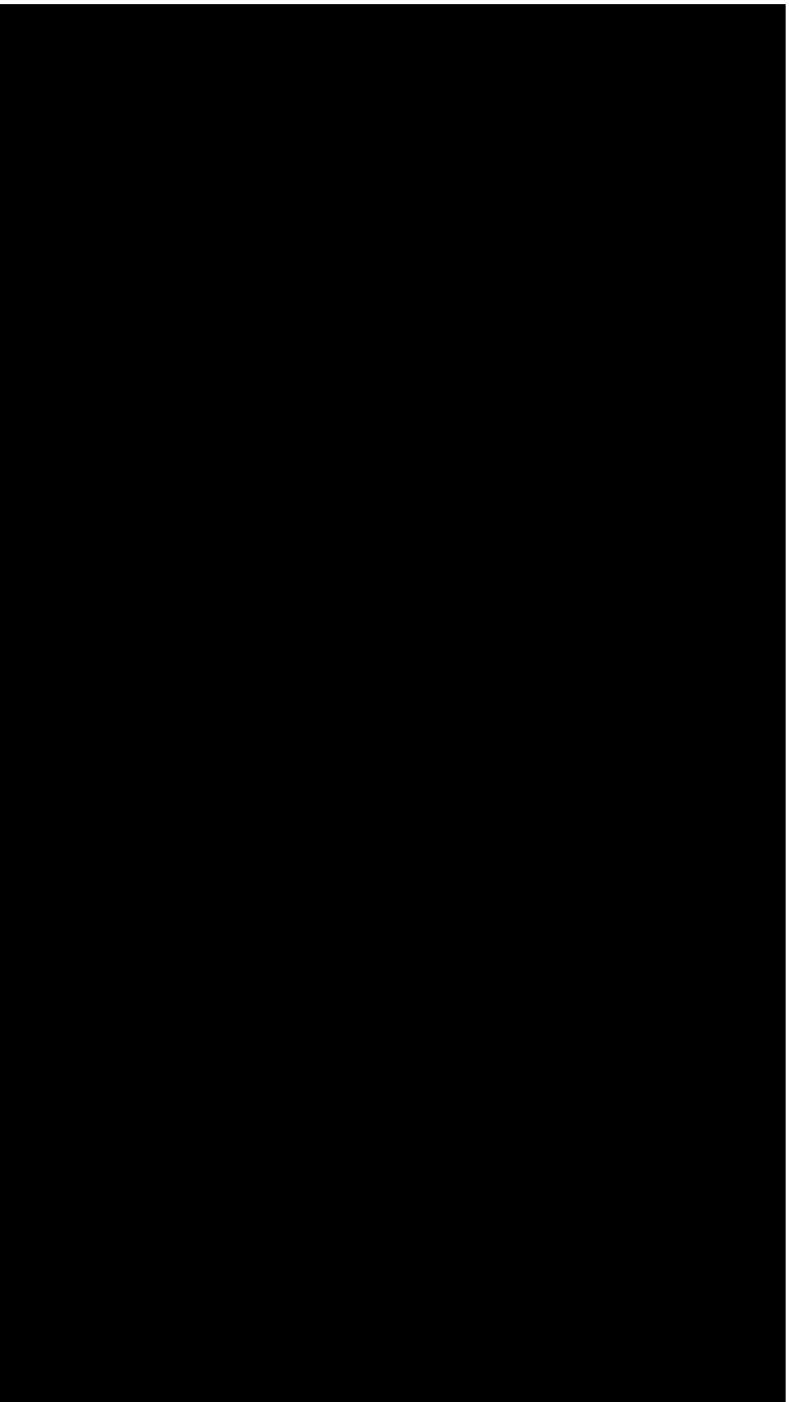
C.12. CID (SELFCID-2) Upper Extremity Arteries(unilateral)

CSD	CV	Code Meaning
SRT	T-46010	Innominate Artery

C.13. CID (12108) Upper Extremity Veins

CSD	CV	Code Meaning
SRT	T-49110	Axillary vein
SRT	T-48052	Basilic vein
SRT	T-49350	Brachial vein
SRT	T-49240	Cephalic vein
SRT	T-49340	Radial vein
SRT	T-48330	Subclavian vein

CSD	CV	Code Meaning
SRT	T-49330	Ulnar vein
SRT	T-48620	Innominate vein
SRT	T-48170	Internal Jugular vein
MRUS	V12108-1	Cephalic Vein and Axillary Vein Junction
MRUS	V12108-2	Upper Arm Cephalic Vein
MRUS	V12108-3	Cephalic Anterior-Cubital Vein
MRUS	V12108-4	Forearm Cephalic Vein
MRUS	V12108-5	



CSD	CV	Code Meaning
		Level 6
MRUS	V12108-18	Arteriovenous Fistula-Stenosis 1
MRUS	V12108-19	Arteriovenous Fistula-Stenosis 2
MRUS	V12108-20	Arteriovenous Fistula-Stenosis 3
MRUS	V12108-21	Arteriovenous Fistula-Aneurysm 1
MRUS	V12108-22	Arteriovenous Fistula-Aneurysm 2
MRUS	V12108-23	Arteriovenous Fistula-Aneurysm 3
MRUS	V12108-24	Arteriovenous Graft-Inflow Artery
MRUS	V12108-25	Arteriovenous Graft-Arterial Anastomosis
MRUS	V12108-26	Arteriovenous Graft-Graft
MRUS	V12108-27	Arteriovenous Graft-Venous Anastomosis
MRUS	V12108-28	Arteriovenous Graft-Outflow Vein Level 1
MRUS	V12108-29	Arteriovenous Graft-Outflow Vein Level 2
MRUS	V12108-30	Arteriovenous Graft-Outflow Vein Level 3
MRUS	V12108-31	Arteriovenous Graft-Outflow Vein Level 4
MRUS	V12108-32	Arteriovenous Graft-Outflow Vein Level 5
MRUS	V12108-33	Arteriovenous Graft-Outflow Vein Level

CSD	CV	Code Meaning
		6
MRUS	V12108-34	Volar Vein
MRUS	V12108-35	Median Cubital Vein

C.14. CID (12109) Lower Extremity Arteries

CSD	CV	Code Meaning
SRT	T-46710	Common Iliac Artery
SRT	T-47700	Anterior Tibial Artery
SRT	T-47400	Common Femoral Artery
SRT	T-47741	Dorsalis Pedis Artery
SRT	T-46910	External Iliac Artery
SRT	T-46740	Internal Iliac Artery
SRT	T-47630	Peroneal Artery
SRT	T-47500	Popliteal Artery
SRT	T-47600	Posterior Tibial Artery
SRT	T-47440	Profunda Femoris Artery
SRT	T-47403	Superficial Femoral Artery
MRUS	V12109-01	TP Trunk Artery
SRT	T-46710	Common Iliac Artery
SRT	T-47700	Anterior Tibial Artery
SRT	T-47400	Common Femoral Artery
SRT	T-47741	Dorsalis Pedis Artery
SRT	T-46910	External Iliac Artery
SRT	T-46740	Internal Iliac Artery
SRT	T-47630	Peroneal Artery
SRT	T-47500	Popliteal Artery
SRT	T-47600	Posterior Tibial Artery
SRT	T-47440	Profunda Femoris Artery
SRT	T-47403	Superficial Femoral Artery
MRUS	A12109-1	Tibial Peroneal Trunk Artery

MRUS A12109-2

CSD	CV	Code Meaning
		Outflow
MRUS	A12109-6	Lower External Arterial Graft 2 Native Inflow
MRUS	A12109-7	Lower External Arterial Graft 2 Anastomosis
MRUS	A12109-8	Lower External Arterial Graft 2 Graft
MRUS	A12109-9	Lower External Arterial Graft 2 Native Outflow
MRUS	A12109-10	Lower External Arterial Graft 3 Native Inflow
MRUS	A12109-11	Lower External Arterial Graft 3 Anastomosis
MRUS	A12109-12	Lower External Arterial Graft 3 Graft
MRUS	A12109-13	Lower External Arterial Graft 3 Native Outflow
MRUS	A12109-14	Lower External Arterial Stent 1

CSD	CV	Code Meaning
		Max
MRUS	A12109-36	Lower External Arterial Graft 1 Anastomosis Post
MRUS	A12109-37	Lower External Arterial Graft 2 Anastomosis Pre
MRUS	A12109-38	Lower External Arterial Graft 2 Anastomosis Max
MRUS	A12109-39	Lower External Arterial Graft 2 Anastomosis Post
MRUS	A12109-40	Lower External Arterial Graft 3 Anastomosis Pre
MRUS	A12109-41	Lower External Arterial Graft 3 Anastomosis Max
MRUS	A12109-42	Lower External Arterial Graft 3 Anastomosis Post
MRUS	A12109-43	Common Iliac Artery Stenosis
MRUS	A12109-44	External Iliac Artery Stenosis
MRUS	A12109-45	Common Femoral Artery Stenosis
MRUS	A12109-46	Profunda Femoral Artery Stenosis
MRUS	A12109-47	Superficial Femoral Artery Stenosis
MRUS	A12109-48	Popliteal Artery Stenosis
MRUS	A12109-49	Tibial Peroneal Trunk Artery Stenosis
MRUS	A12109-50	Anterior Tibial Artery Stenosis
MRUS	A12109-51	Peroneal Artery Stenosis
MRUS	A12109-52	Posterior Tibial Artery Stenosis
MRUS	A12109-53	Dorsalis Pedis Artery Stenosis
MRUS	A12109-54	Lower External Arterial Stenosis 1
MRUS	A12109-55	Lower External Arterial Stenosis 2
MRUS	A12109-56	Lower External Arterial Stenosis 3
MRUS	A12109-57	Lower External Arterial Stenosis 4
MRUS	A12109-58	Internal Iliac Arterial Aneurysm
MRUS	A12109-59	Internal Iliac Artery Stenosis
MRUS	A12109-60	Lower Artery

C.15. CID (12110) Lower Extremity Veins

CSD	CV	Code Meaning

CSD	CV	Code Meaning
SRT	T-49630	Anterior Tibial Vein
SRT	G-035B	Common Femoral Vein
SRT	T-48920	Common Iliac Vein
SRT	T-48930	External Iliac Vein
SRT	T-4942D	Gastrocnemius vein
SRT	T-49530	Great Saphenous Vein
SRT	T-49550	Lesser Saphenous Vein
SRT	T-49650	Peroneal Vein
SRT	T-49640	Popliteal Vein
SRT	T-49620	Posterior Tibial Vein
SRT	T-49660	Profunda Femoris Vein
SRT	G-036B	Soleal vein
SRT	G-035A	Superficial Femoral Vein

CSD	CV	Code Meaning
SRT	T-46422	Proper Hepatic Artery
SRT	T-46460	Splenic Artery
SRT	T-46510	Superior Mesenteric Artery
SRT	T-46520	Inferior Mesenteric Artery

C.17. CID (12114) Abdominal Veins (unilateral)

CSD	CV	Code Meaning
SRT	T-48720	Hepatic Vein
SRT	T-48726	Middle Hepatic Vein
SRT	T-48810	Portal Vein
SRT	T-48710	Inferior Vena Cava
SRT	T-48890	Splenic Vein
SRT	T-48840	Superior Mesenteric Vein
MRUS	V12114-01	Main Portal Vein
SRT	T-48910	Inferior Mesenteric Vein
SRT	T-48727	Left Hepatic Vein
SRT	T-48725	Right Hepatic Vein
MRUS	V12114-02	Hepatic V Anast Liver Transplant
MRUS	V12114-03	Portal V Anast Liver Transplant
MRUS	V12114-04	IVC Liver Transplant
MRUS	V12114-05	Hep V Confl Liver Transplant
MRUS	V12114-06	Donor IVC Liver Transplant
MRUS	V12114-07	TIPS

C.18. CID (12115) Renal Vessels

CSD	CV	Code Meaning
SRT	T-46600	Renal Artery

CSD	CV	Code Meaning
MRUS	A12115-03	Renal A2
MRUS	A12115-04	Hilum
MRUS	A12115-05	Renal A Aneurysm
MRUS	A12115-21	Artery Anast 2 Transplant 1
MRUS	V12115-06	Vein Anast Transplant 1
MRUS	V12115-07	Vein Anast 2 Transplant 1
MRUS	A12115-22	Artery Anast Transplant 2
MRUS	A12115-23	Artery Anast 2 Transplant 2
MRUS	V12115-08	Vein Anast Transplant 2
MRUS	V12115-09	Vein Anast 2 Transplant 2

C.19. CID (12116) Vessel Segment Modifiers

CSD	CV	Code Meaning
SRT	G-A119	Distal
SRT	G-A188	Mid-longitudinal
SRT	G-A118	Proximal
SRT	R-40775	None
MRUS	A12116-01	60°
MRUS	A12116-02	90°
MRUS	A12116-03	120
MRUS	A12116-04	150°
MRUS	A12116-05	180°
MRUS	A12116-06	210°
MRUS	A12116-07	240°
MRUS	A12116-08	270°
MRUS	A12116-09	300°
MRUS	A12116-10	ANT
MRUS	A12116-11	LAT
MRUS	A12116-12	POST
MRUS	A12116-13	Near Wall
MRUS	A12116-14	Far Wall
SRT	G-036A	Ren A Org
MRUS	12116-4	Prox-Mid
MRUS	12116-5	Mid-Dist

CSD	CV	Code Meaning
MRUS	12116-6	tightest spot on stenosis
MRUS	12116-7	SupraRenal
MRUS	12116-8	Renal
MRUS	12116-9	1
MRUS	12116-10	2
MRUS	12116-11	3
MRUS	12116-12	Pre Sten
MRUS	12116-13	Sten
MRUS	12116-14	Post Sten
SRT	R-40775	None
SRT	R-42191	Sup
SRT	R-404D5	Mid
SRT	R-4094A	Inf

C.20. CID (12117) Vessel Segment Modifiers

CSD	CV	Code Meaning
SRT	R-404D5	Mid
SRT	G-A100	Right
MRUS	12117-1	Common
MRUS	12117-2	Proper
SRT	G-A101	Left
MRUS	12117-3	R Ant
MRUS	12117-4	R Post
SRT	G-A332	main

C.21. CID (12120) Abdominal Arteries (unilateral)

CSD	CV	Code Meaning
SRT	T-42000	Aorta
SRT	T-46400	Celiac Axis
SRT	T-46421	Common Hepatic Artery
SRT	T-46440	Gastroduodenal Artery
SRT	T-46520	Inferior Mesenteric Artery
SRT	T-46422	Proper Hepatic Artery

CSD	CV	Code Meaning
SRT	T-46460	Splenic Artery
SRT	T-46510	Superior Mesenteric Artery
MRUS	A12120-2	Aortic Endograft Residual Aneurysm Sac
MRUS	A12120-3	Aortic Endograft Inflow
MRUS	A12120-4	Aortic Endograft Graft Body
MRUS	A12120-5	Aortic Endograft Limb
MRUS	A12120-6	Aortic Endograft Outflow
MRUS	A12120-7	Aortic Bypass Graft Anastomosis
MRUS	A12120-8	Aortic Bypass Graft Graft
MRUS	A12120-9	Artery Anastomosis
MRUS	A12120-10	Artery Anastomosis2
MRUS	A12120-11	Hepatic A Anastomosis
MRUS	A12120-12	Abdominal Aorta Aneurysm
MRUS	A12120-13	Celiac Axis Aneurysm
MRUS	A12120-14	Superior Mesenteric Arterial Aneurysm
MRUS	A12120-15	Com Hepatic A Aneurysm
MRUS	A12120-16	Proper Hepatic A Aneurysm
MRUS	A12120-17	Hepatic A Aneurysm
MRUS	A12120-18	Splenic Arterial Aneurysm
MRUS	A12120-19	Gastroduodenal Arterial Aneurysm
MRUS	A12120-20	Inferior Mesenteric Arterial Aneurysm
MRUS	A12120-21	Arterial Post Abdominal Aorta
MRUS	A12120-22	Arterial Post Celiac Axis
MRUS	A12120-23	Hepatic Artery
MRUS	A12120-24	Arterial Post SMA
MRUS	A12120-25	Arterial Post Com Hepatic A
MRUS	A12120-26	Arterial Post Proper Hepatic A
MRUS	A12120-27	Arterial Post Hepatic A
MRUS	A12120-28	Arterial Post Splenic Artery
MRUS	A12120-29	Arterial Post GDA
MRUS	A12120-30	Arterial Post IMA
MRUS	A12120-31	EVAR Residual Aneurysm Sac
MRUS	A12120-32	EVAR Inflow
MRUS	A12120-33	EVAR Graft Body
MRUS	A12120-35	EVAR Outflow

MODALITY Label	*DICOM Mapping*	*Contain Content*
<Vasculature Anatomic Location>Reflux time	M12119-11,MRUS,Reflux time	1 C.Iliac V Reflux time 2 Ex.Iliac V Reflux time 3 IIV Reflux time 4 Femoral V Reflux time 5 CFV Reflux time 6 DFV Reflux time 7 SFV Reflux time 8 Popliteal V Reflux time 9 TP Trunk V Reflux time 10 Sural V Reflux time 11 Soleal V Reflux time 12 Peroneal V Reflux time 13 P.Tib. V Reflux time 14 Saph V Reflux time 15 SSV Reflux time 16 IVC Reflux time 17 A.Tib. V Reflux time
<Vasculature Anatomic Location> Splenic V Diam	M12119-12,MRUS,Splenic V Diam	Splenic Vein
<Vasculature Anatomic Location> Splenic A Diam	M12119-13,MRUS,Splenic A Diam	Splenic Arteries
<Vasculature Anatomic Location> Aorta Sten D	C12119-1,MRUS,Aorta Sten D	Abdominal Arteries
<Vasculature Anatomic Location> Aorta Sten A	C12119-2,MRUS,Aorta Sten A	Abdominal Arteries
<Vasculature Anatomic Location> Aneurysm Length	M12119-14,MRUS,Aneurysm Length	Abdominal Arteries
<Vasculature Anatomic Location> Aneurysm Height	M12119-15,MRUS,Aneurysm Height	Abdominal Arteries
<Vasculature Anatomic Location> Aneurysm Width	M12119-16,MRUS,Aneurysm Width	Abdominal Arteries

MODALITY Label

Carotid.Graft.3.Anst.Max	A12104-23,MRUS,Carotid Graft 3 Anastomosis Max
Carotid.Graft.3.Anst.Post	A12104-24,MRUS,Carotid Graft 3 Anastomosis Post
Carotid.Graft.3.Native.Outflow	A12104-25,MRUS,Carotid Graft 3 Native Outflow
CCA.Aneurysm	A12104-26,MRUS,Common Carotid Arterial Aneurysm
CCA.Aneurysm	A12104-26,MRUS,Common Carotid Arterial Aneurysm
Bulb.Aneurysm	A12104-27,MRUS,Bulbillate Aneurysm
Bulb.Aneurysm	A12104-27,MRUS,Bulbillate Aneurysm
Carotid.Bifurcation.Aneurysm	A12104-28,MRUS,Carotid Bifurcation Aneurysm
Carotid.Bifurcation.Aneurysm	A12104-28,MRUS,Carotid Bifurcation Aneurysm
ICA.Aneurysm	A12104-29,MRUS,Internal Carotid Arterial Aneurysm
ICA.Aneurysm	A12104-29,MRUS,Internal Carotid Arterial Aneurysm
ECA.Aneurysm	A12104-30,MRUS,External Carotid Arterial Aneurysm
ECA.Aneurysm	A12104-30,MRUS,External Carotid Arterial Aneurysm
Vert.A.Aneurysm	A12104-31,MRUS,Vertebral Arterial Aneurysm
Vert.A.Aneurysm	A12104-31,MRUS,Vertebral Arterial Aneurysm
Subclav.A.Aneurysm	A12104-32,MRUS,Subclavian Arterial Aneurysm
Subclav.A.Aneurysm	A12104-32,MRUS,Subclavian Arterial Aneurysm
CCA.Sten	A12104-33,MRUS,Common Carotid Artery Stenosis
Bulb.Sten	A12104-34,MRUS,Bulbillate Stenosis
Carotid.Bifurcation.Sten	A12104-35,MRUS,Carotid Bifurcation Stenosis
ICA.Sten	A12104-36,MRUS,Internal Carotid Artery Stenosis
ECA.Sten	A12104-37,MRUS,External Carotid Artery Stenosis
Vert.A.Sten	A12104-38,MRUS,Vertebral Artery Stenosis
Subclav.A.Sten	A12104-39,MRUS,Subclavian Artery Stenosis
Carotid.Stenosis.1(2D)	A12104-40,MRUS,Carotid Stenosis 1
Carotid.Stenosis.2.(2D)	A12104-41,MRUS,Carotid Stenosis 2
Carotid.Stenosis.3.(2D)	A12104-42,MRUS,Carotid Stenosis 3
Carotid.Stenosis.4.(2D)	A12104-43,MRUS,Carotid Stenosis 4
Carotid.Stenosis.1	A12104-40,MRUS,Carotid Stenosis 1
Carotid.Stenosis.2.	A12104-41,MRUS,Carotid Stenosis 2
Carotid.Stenosis.3	A12104-42,MRUS,Carotid Stenosis 3
Carotid.Stenosis.4	A12104-43,MRUS,Carotid Stenosis 4

Dist.CCA.IMT	A12104-44,MRUS,Common Carotid Artery Intima Media Thickness
Bulb.IMT	A12104-45,MRUS,Carotid Bulb Intima Media Thickness
ICA.IMT	A12104-46,MRUS,Internal Carotid Artery Intima Media Thickness
ECA.IMT	A12104-47,MRUS,External Carotid Artery Intima Media Thickness

C.22.3. Intracranial Cerebral Vessels

MODALITY Label	***DICOM Mapping***
ACA	T-45540,SRT,Anterior Cerebral Artery
MCA	T-45600,SRT,Middle Cerebral Artery
PCA	T-45900,SRT,Posterior Cerebral Artery
PComA	T-45320,SRT,Posterior Communicating Artery
AComA	T-45530,SRT,Anterior Communicating Artery
MCA	T-45600, SRT,Middle Cerebral Artery
PCA	T-45900,SRT,Posterior Cerebral Artery

C.22.4. Intracranial Cerebral Vessels (unilateral)

MODALITY Label	***DICOM Mapping***
BA	T-45800,SRT,Basilar Artery
AComA	T-45530,SRT,Anterior Communicating Artery
Ba V	V12106-01,MRUS,Basilar Vein

C.22.5. Upper Extremity Arteries

MODALITY Label	***DICOM Mapping***
Axill A	T-47100,SRT,Axillary Artery
Brachial	T-47160, SRT, Brachial Artery
Radial A	T-47300,SRT,Radial Artery
Subclav	T-46100, SRT, Subclavian Artery
Ulnar A	T-47200,SRT ,Ulnar Artery
Mammary.A.2D	A12107-1,MRUS,Mammary Artery
UE.A.Graft.1.Native.Inflow.2D	A12107-2,MRUS,Upper External Arterial Graft 1 Native Inflow

Ulnar.A.Sten	A12107-28,MRUS,Ulnar Artery Stenosis
UE.A.Stenosis.1.2D	A12107-29,MRUS,Upper External Arterial Stenosis 1
UE.A.Stenosis.2.2D	A12107-30,MRUS,Upper External Arterial Stenosis 2
UE.A.Stenosis.3.2D	A12107-31,MRUS,Upper External Arterial Stenosis 3
UE.A.Stenosis.4.2D	A12107-32,MRUS,Upper External Arterial Stenosis 4
Mammary.A	A12107-1,MRUS,Mammary Artery
UE.A.Graft.1.Native.Inflow	A12107-2,MRUS,Upper External Arterial Graft 1 Native Inflow
UE.A.Graft.1.Anast	A12107-3,MRUS,Upper External Arterial Graft 1 Anastomosis
UE.A.Graft.1.Graft	A12107-4,MRUS,Upper External Arterial Graft 1 Graft
UE.A.Graft.1.Native.Outflow	A12107-5,MRUS,Upper External Arterial Graft 1 Native Outflow
UE.A.Graft.2.Native.Inflow	A12107-6,MRUS,Upper External Arterial Graft 2 Native Inflow
UE.A.Graft.2.Anast	A12107-7,MRUS,Upper External Arterial Graft 2 Anastomosis
UE.A.Graft.2.Graft	A12107-8,MRUS,Upper External Arterial Graft 2 Graft
UE.A.Graft.2.Native.Outflow	A12107-9,MRUS,Upper External Arterial Graft 2 Native Outflow
UE.A.Graft.3.Native.Inflow	A12107-10,MRUS,Upper External Arterial Graft 3 Native Inflow
UE.A.Graft.3.Anast	A12107-11,MRUS,Upper External Arterial Graft 3 Anastomosis
UE.A.Graft.3.Graft	A12107-12,MRUS,Upper External Arterial Graft 3 Graft
UE.A.Graft.3.Native.Outflow	A12107-13,MRUS,Upper External Arterial Graft 3 Native Outflow
UE.A.Stent.1	A12107-14,MRUS,Upper External Arterial Stent 1
UE.A.Stent.2	A12107-

UE.A.Stent.3	A12107-16,MRUS,Upper External Arterial Stent 3
Mammary.A.Aneurysm	A12107-17,MRUS,Mammary Arterial

Int.Jug.V	T-48170,SRT,Internal Jugular vein
CA.Junction	V12108-1,MRUS,Cephalic Vein and Axillary Vein Junction
Upper.Arm.Cephalic.V	V12108-2,MRUS,Upper Arm Cephalic Vein
Cephalic.Antecubital.V	V12108-3,MRUS,Cephalic Anterior-Cubital Vein
Forearm.Cephalic.V	V12108-4,MRUS,Forearm Cephalic Vein
BA.Junction	V12108-5,MRUS,Basilic Vein and Axillary Vein Junction
Upper.Arm.Basilic.V	V12108-6,MRUS,Upper Arm Basilic Vein
Basilic.Antecubital.V	V12108-7,MRUS,Basilic Anterior-Cubital Vein
Forearm.Basilic.V	V12108-8,MRUS,Forearm Basilic Vein
Digital.V	V12108-9,MRUS,Digital Vein
AVF.Inflow.Artery.2D	V12108-10,MRUS,Arteriovenous Fistula-Inflow Artery
AVF.Anast.2D	V12108-11,MRUS,Arteriovenous Fistula-Arterial Anastomosis
AVF.Outflow.Vein.Level.1.2D	V12108-12,MRUS,Arteriovenous Fistula-Outflow Vein Level 1
AVF.Outflow.Vein.Level.2.2D	V12108-13,MRUS,Arteriovenous Fistula-Outflow Vein Level 2
AVF.Outflow.Vein.Level.3.2D	V12108-14,MRUS,Arteriovenous Fistula-Outflow Vein Level 3
AVF.Outflow.Vein.Level.4.2D	V12108-15,MRUS,Arteriovenous Fistula-Outflow Vein Level 4
AVF.Outflow.Vein.Level.5.2D	V12108-16,MRUS,Arteriovenous Fistula-Outflow Vein Level 5
AVF.Outflow.Vein.Level.6.2D	V12108-17,MRUS,Arteriovenous Fistula-Outflow Vein Level 6
AVF.Stenosis.1.2D	V12108-18,MRUS,Arteriovenous Fistula-Stenosis 1
AVF.Stenosis.2.2D	V12108-19,MRUS,Arteriovenous Fistula-Stenosis 2
AVF.Stenosis.3.2D	V12108-20,MRUS,Arteriovenous Fistula-Stenosis 3
AVF.Aneurysm.1.2D	V12108-21,MRUS,Arteriovenous Fistula-Aneurysm 1
AVF.Aneurysm.2.2D	V12108-22,MRUS,Arteriovenous Fistula-Aneurysm 2
AVF.Aneurysm.3.2D	V12108-23,MRUS,Arteriovenous Fistula-Aneurysm 3
AV.Graft.Inflow.Artery.2D	V12108-24,MRUS,Arteriovenous Graft-Inflow Artery
AV.Graft.Arterial.Anast.2D	V12108-25,MRUS,Arteriovenous Graft-Arterial Anastomosis
AV.Graft.Graft.2D	V12108-26,MRUS,Arteriovenous Graft-Graft

AV.Graft.Venous.Anast.2D	V12108-27,MRUS,Arteriovenous Graft-Venous Anastomosis
AV.Graft.Outflow.Vein.Level.1.2D	V12108-28,MRUS,Arteriovenous Graft-Outflow Vein Level 1
AV.Graft.Outflow.Vein.Level.2.2D	V12108-29,MRUS,Arteriovenous Graft-Outflow Vein Level 2
AV.Graft.Outflow.Vein.Level.3.2D	V12108-30,MRUS,Arteriovenous Graft-Outflow Vein Level 3
AV.Graft.Outflow.Vein.Level.4.2D	V12108-31,MRUS,Arteriovenous Graft-Outflow Vein Level 4
AV.Graft.Outflow.Vein.Level.5.2D	V12108-32,MRUS,Arteriovenous Graft-Outflow Vein Level 5
AV.Graft.Outflow.Vein.Level.6.2D	V12108-33,MRUS,Arteriovenous Graft-Outflow Vein Level 6
Volar.V.2D	V12108-34,MRUS,Volar Vein
Median.Cubital.V.2D	V12108-35,MRUS,Median Cubital Vein
AVF.Inflow.Artery	V12108-10,MRUS,Arteriovenous Fistula-Inflow Artery
AVF.Outflow.Vein.Level.1	V12108-12,MRUS,Arteriovenous Fistula-Outflow Vein Level 1
AVF.Outflow.Vein.Level.2	V12108-13,MRUS,Arteriovenous Fistula-Outflow Vein Level 2
AVF.Outflow.Vein.Level.3	V12108-14,MRUS,Arteriovenous Fistula-Outflow Vein Level 3
AVF.Outflow.Vein.Level.4	V12108-15,MRUS,Arteriovenous Fistula-Outflow Vein Level 4
AVF.Outflow.Vein.Level.5	V12108-16,MRUS,Arteriovenous Fistula-Outflow Vein Level 5
AVF.Outflow.Vein.Level.6	V12108-17,MRUS,Arteriovenous Fistula-Outflow Vein Level 6
AVF.Stenosis.1	V12108-18,MRUS,Arteriovenous Fistula-Stenosis 1
AVF.Stenosis.2	V12108-19,MRUS,Arteriovenous Fistula-Stenosis 2
AVF.Stenosis.3	V12108-20,MRUS,Arteriovenous Fistula-Stenosis 3
AV.Graft.Inflow.Artery	V12108-24,MRUS,Arteriovenous Graft-Inflow Artery
AV.Graft.Arterial.Anast	V12108-25,MRUS,Arteriovenous Graft-Arterial Anastomosis
AV.Graft.Graft	V12108-26,MRUS,Arteriovenous Graft-Graft
AV.Graft.Venous.Anast	V12108-27,MRUS,Arteriovenous Graft-Venous Anastomosis

AV.Graft.Outflow.Vein.Level.1	V12108-28,MRUS,Arteriovenous Graft-Outflow Vein Level 1
AV.Graft.Outflow.Vein.Level.2	V12108-29,MRUS,Arteriovenous Graft-Outflow Vein Level 2
AV.Graft.Outflow.Vein.Level.3	V12108-30,MRUS,Arteriovenous Graft-Outflow Vein Level 3
AV.Graft.Outflow.Vein.Level.4	V12108-31,MRUS,Arteriovenous Graft-Outflow Vein Level 4
AV.Graft.Outflow.Vein.Level.5	V12108-32,MRUS,Arteriovenous Graft-Outflow Vein Level 5
AV.Graft.Outflow.Vein.Level.6	V12108-33,MRUS,Arteriovenous Graft-Outflow Vein Level 6

C.22.8. Lower Extremity Arteries

MODALITY Label	***DICOM Mapping***
C.Iliac A	T-46710,SRT,Common Iliac Artery
A.Tib A	T-47700,SRT ,Anterior Tibial Artery
CFA	T-47400,SRT ,Common Femoral Artery
Dors.Ped A	T-47741,SRT,Dorsalis Pedis Artery
Ex.Iliac A	T-46910,SRT ,External Iliac Artery
IIA	T-46740,SRT ,Internal Iliac Artery
Peroneal A	T-47630,SRT ,Peroneal Artery
Pop A	T-47500,SRT ,Popliteal Artery
P.Tib A	T-47600,SRT ,Posterior Tibial Artery
PFA	T-47440,SRT ,Profunda Femoris Artery
SFA	T-47403 ,SRT ,Superficial Femoral Artery
TP Trunk A	V12109-01,MRUS,TP Trunk Artery
C.Iliac.A.2D	T-46710,SRT,Common Iliac Artery
A.Tib.A.2D	T-47700,SRT,,Anterior Tibial Artery
CFA	T-47400,SRT, Common Femoral Artery
Dors.Ped.A.2D	T-47741,SRT,Dorsalis Pedis Artery
Ex.Iliac.A.2D	T-46910,SRT, External Iliac Artery
IIA.2D	T-46740,SRT, Internal Iliac Artery
Peroneal.A.2D	T-47630,SRT, Peroneal Artery
Pop.A.2D	T-47500,SRT, Popliteal Artery
PTA.2D	T-47600,SRT, Posterior Tibial Artery

PFA.2D	T-47440,SRT, Profunda Femoris Artery
SFA.2D	T-47403 ,SRT, Superficial Femoral Artery
TP.Trunk.A.2D	A12109-1,MRUS,Tibial Peroneal Trunk Artery
LE.A.Graft.1.Native.Inflow.2D	A12109-2,MRUS,Lower External Arterial Graft 1 Native Inflow
LE.A.Graft.1.Anast.2D	A12109-3,MRUS,Lower External Arterial Graft 1 Anastomosis
LE.A.Graft.1.Graft.2D	A12109-4,MRUS,Lower External Arterial Graft 1 Graft
LE.A.Graft.1.Native.Outflow.2D	A12109-5,MRUS,Lower External Arterial Graft 1 Native Outflow
LE.A.Graft.2.Native.Inflow.2D	A12109-6,MRUS,Lower External Arterial Graft 2 Native Inflow
LE.A.Graft.2.Anast.2D	A12109-7,MRUS,Lower External Arterial Graft 2 Anastomosis
LE.A.Graft.2.Graft.2D	A12109-8,MRUS,Lower External Arterial Graft 2 Graft
LE.A.Graft.2.Native.Outflow.2D	A12109-9,MRUS,Lower External Arterial Graft 2 Native Outflow
LE.A.Graft.3.Native.Inflow.2D	A12109-10,MRUS,Lower External Arterial Graft 3 Native Inflow
LE.A.Graft.3.Anast.2D	A12109-11,MRUS,Lower External Arterial Graft 3 Anastomosis
LE.A.Graft.3.Graft.2D	A12109-12,MRUS,Lower External Arterial Graft 3 Graft
LE.A.Graft.3.Native.Outflow.2D	A12109-13,MRUS,Lower External Arterial Graft 3 Native Outflow
LE.A.Stent.1.2D	A12109-14,MRUS,Lower External Arterial Stent 1
LE.A.Stent.2.2D	A12109-15,MRUS,Lower External Arterial Stent 2
LE.A.Stent.3.2D	A12109-16,MRUS,Lower External Arterial Stent 3
LE.A.Finding.1.2D	A12109-17,MRUS,Lower External Arterial Finding 1
LE.A.Finding.2.2D	A12109-18,MRUS,Lower External Arterial Finding 2
LE.A.Finding.3.2D	A12109-19,MRUS,Lower External Arterial Finding 3
LE.A.Finding.4.2D	A12109-20,MRUS,Lower External Arterial Finding 4
LE.A.Finding.5.2D	A12109-21,MRUS,Lower External Arterial Finding 5
LE.A.Finding.6.2D	A12109-22,MRUS,Lower External Arterial Finding 6
C.Iliac.A.Aneurysm.2D	A12109-23,MRUS,Common Iliac Arterial Aneurysm

TP.Trunk.A.Aneurysm.2D	A12109-29,MRUS,Tibial Peroneal Trunk Arterial Aneurysm
A.Tib.A.Aneurysm.2D	A12109-30,MRUS,Anterior Tibial Arterial Aneurysm
Peroneal.A.Aneurysm.2D	A12109-31,MRUS,Peroneal Arterial Aneurysm
P.Tib.A.Aneurysm.2D	A12109-32,MRUS,Posterior Tibial Arterial Aneurysm
Dors.Ped.A.Aneurysm.2D	A12109-33,MRUS,Dorsalis Pedis Arterial Aneurysm
CFA.Aneurysm	A12109-25,MRUS,Common Femoral Arterial Aneurysm
CIA.Sten	A12109-43,MRUS,Common Iliac Artery Stenosis
EIA.Sten	A12109-44,MRUS,External Iliac Artery Stenosis
CFA.Sten	A12109-45,MRUS,Common Femoral Artery Stenosis
PFA.Sten	A12109-46,MRUS,Profunda Femoral Artery Stenosis
SFA.Sten	A12109-47,MRUS,Superficial Femoral Artery Stenosis
Pop.A.Sten	A12109-48,MRUS,Popliteal Artery Stenosis
TP.Trunk.A.Sten	A12109-49,MRUS,Tibial Peroneal Trunk Artery Stenosis
ATA.Sten	A12109-50,MRUS,Anterior Tibial Artery Stenosis
Peroneal.A.Sten	A12109-51,MRUS,Peroneal Artery Stenosis
PTA.Sten	A12109-52,MRUS,Posterior Tibial Artery Stenosis
DPA.Sten	A12109-53,MRUS,Dorsalis Pedis Artery Stenosis
LE.A.Stenosis.1.2D	A12109-54,MRUS,Lower External Arterial Stenosis 1
LE.A.Stenosis.2.2D	A12109-55,MRUS,Lower External Arterial Stenosis 2
LE.A.Stenosis.3.2D	A12109-56,MRUS,Lower External Arterial Stenosis 3
LE.A.Stenosis.4.2D	A12109-57,MRUS,Lower External Arterial Stenosis 4
IIA.Aneurysm.2D	A12109-58,MRUS,Internal Iliac Arterial Aneurysm
IIA.Sten	A12109-59,MRUS,Internal Iliac Artery Stenosis
Lower	A12109-60,MRUS,Lower Artery
C.Iliac.A	T-46710,SRT,Common Iliac Artery
A.Tib.A	T-47700,SRT,,Anterior Tibial Artery
CFA	T-47400,SRT, Common Femoral Artery
Dors.Ped.A	T-47741,SRT,Dorsalis Pedis Artery
Ex.Iliac.A	T-46910,SRT, External Iliac Artery
IIA	T-46740,SRT, Internal Iliac Artery
Peroneal.A	T-47630,SRT, Peroneal Artery
Pop.A	T-47500,SRT, Popliteal Artery
P.Tib.A	T-47600,SRT, Posterior Tibial Artery
PFA	T-47440,SRT, Profunda Femoris Artery
TP.Trunk.A	A12109-1,MRUS,Tibial Peroneal Trunk Artery

LE.A.Graft.1.Native.Inflow	A12109-2,MRUS,Lower External Arterial Graft 1 Native Inflow
LE.A.Graft.1.Graft	A12109-4,MRUS,Lower External Arterial Graft 1 Graft
LE.A.Graft.1.Native.Outflow	A12109-5,MRUS,Lower External Arterial Graft 1 Native Outflow
LE.A.Graft.2.Native.Inflow	A12109-6,MRUS,Lower External Arterial Graft 2 Native Inflow
LE.A.Graft.2.Graft	A12109-8,MRUS,Lower External Arterial Graft 2 Graft
LE.A.Graft.2.Native.Outflow	A12109-9,MRUS,Lower External Arterial Graft 2 Native Outflow
LE.A.Graft.3.Native.Inflow	A12109-10,MRUS,Lower External Arterial Graft 3 Native Inflow
LE.A.Graft.3.Graft	A12109-12,MRUS,Lower External Arterial Graft 3 Graft
LE.A.Graft.3.Native.Outflow	A12109-13,MRUS,Lower External Arterial Graft 3 Native Outflow
LE.A.Stent.1	A12109-14,MRUS,Lower External Arterial Stent 1
LE.A.Stent.2	A12109-15,MRUS,Lower External Arterial Stent 2
LE.A.Stent.3	A12109-16,MRUS,Lower External Arterial Stent 3
LE.A.Graft.1.Anst.Pre	A12109-34,MRUS,Lower External Arterial Graft 1 Anastomosis Pre
LE.A.Graft.1.Anst.Max	A12109-35,MRUS,Lower External Arterial Graft 1 Anastomosis Max
LE.A.Graft.1.Anst.Post	A12109-36,MRUS,Lower External Arterial Graft 1 Anastomosis Post
LE.A.Graft.2.Anst.Pre	A12109-37,MRUS,Lower External Arterial Graft 2 Anastomosis Pre
LE.A.Graft.2.Anst.Max	A12109-38,MRUS,Lower External Arterial Graft 2 Anastomosis Max
LE.A.Graft.2.Anst.Post	A12109-39,MRUS,Lower External Arterial Graft 2 Anastomosis Post
LE.A.Graft.3.Anst.Pre	A12109-40,MRUS,Lower External Arterial Graft 3 Anastomosis Pre
LE.A.Graft.3.Anst.Max	A12109-41,MRUS,Lower External Arterial Graft 3 Anastomosis Max
LE.A.Graft.3.Anst.Post	A12109-42,MRUS,Lower External Arterial Graft 3 Anastomosis Post
C.Iliac.A.Sten	A12109-43,MRUS,Common Iliac Artery Stenosis
Ex.Iliac.A.Sten	A12109-44,MRUS,External Iliac Artery Stenosis

A.Tib.A.Sten	A12109-50,MRUS,Anterior Tibial Artery Stenosis
Peroneal.A.Sten	A12109-51,MRUS,Peroneal Artery Stenosis
P.Tib.A.Sten	A12109-52,MRUS,Posterior Tibial Artery Stenosis
Dors.Ped.A.Sten	A12109-53,MRUS,Dorsalis Pedis Artery Stenosis
LE.A.Stenosis.1	A12109-54,MRUS,Lower External Arterial Stenosis 1
LE.A.Stenosis.2	A12109-55,MRUS,Lower External Arterial Stenosis 2
LE.A.Stenosis.3	A12109-56,MRUS,Lower External Arterial Stenosis 3
LE.A.Stenosis.4	A12109-57,MRUS,Lower External Arterial Stenosis 4
CFA.Sten	A12109-45,MRUS,Common Femoral Artery Stenosis
PFA.Sten	A12109-46,MRUS,Profunda Femoral Artery Stenosis
SFA.Sten	A12109-47,MRUS,Superficial Femoral Artery Stenosis
Pop.A.Sten	A12109-48,MRUS,Popliteal Artery Stenosis
TP.Trunk.A.Sten	A12109-49,MRUS,Tibial Peroneal Trunk Artery Stenosis

C.22.9. Lower Extremity Veins

MODALITY Label	***DICOM Mapping***
A.Tib V	T-49630,SRT,Anterior Tibial Vein
CFV	G-035B,SRT,Common Femoral Vein
C.Iliac V	T-48920,SRT,Common Iliac Vein
Ex.Iliac V	T-48930,SRT,External Iliac Vein
Sural V	T-4942D,SRT,Gastrocnemius vein
Saph V	T-49530,SRT,Great Saphenous Vein
SSV	T-49550,SRT,Lesser Saphenous Vein
Peroneal V	T-49650,SRT,Peroneal Vein
Pop V	T-49640,SRT,Popliteal Vein
P.Tib V	T-49620,SRT,Posterior Tibial Vein
PFV	T-49660,SRT,Profunda Femoris Vein
Soleal V	G-036B,SRT,Soleal vein
SFV	G-035A,SRT,Superficial Femoral Vein
IIV	T-48940,SRT,Internal iliac vein
Femoral V	T-49410,SRT,Femoral vein
TP Trunk V	V12110-01,MRUS,TP Trunk Vein
GSV.Thigh	R-10259,SRT,Great Saphenous Vein of Thigh
GSV.Calf	R-1025A,SRT,Great Saphenous Vein of Calf
SF.Junction	T-D930A,SRT,Saphenofemoral Junction

SP.Junction	T-4941A,SRT,Saphenopopliteal junction
GSV.Knee	V12110-02,MRUS,Great Saphenous Vein Knee
SSV.Thigh.Extension	V12110-03,MRUS,Small Saphenous Vein Thigh Extension
AASV	V12110-04,MRUS,AASV
PASV	V12110-05,MRUS,PASV
Prox.Calf.Perf	V12110-06,MRUS,Prox Calf Perf
Mid.Calf.Perf	V12110-07,MRUS,Mid Calf Perf
Dist.Calf.Perf	V12110-08,MRUS,Dist Calf Perf
GSV.Thigh	R-10259,SRT,Great Saphenous Vein of Thigh
GSV.Calf	R-1025A,SRT,Great Saphenous Vein of Calf
SF.Junction	T-D930A,SRT,Saphenofemoral Junction
SP.Junction	T-4941A,SRT,Saphenopopliteal junction
GSV.Knee	V12110-02,MRUS,Great Saphenous Vein Knee
SSV.Thigh.Extension	V12110-03,MRUS,Small Saphenous Vein Thigh Extension
AASV	V12110-04,MRUS,AASV
PASV	V12110-05,MRUS,PASV

C.22.10. Abdominal Arteries (unilateral)

MODALITY Label	***DICOM Mapping***
Abdominal Aorta	T-42000,SRT,Aorta
Celiac Axis	T-46400,SRT,Celiac Axis
C Hepatic A	T-46421,SRT,Common Hepatic Artery
Hepatic A	T-46422,SRT,Proper Hepatic Artery
Splenic A	T-46460,SRT,Splenic Artery
SMA	T-46510,SRT,Superior Mesenteric Artery
IMA	T-46520,SRT,Inferior Mesenteric Artery
Aorta	T-42000,SRT,Aorta
Celiac Axis	T-46400,SRT,Celiac Axis
Com Hepatic A	T-

EVAR Residual Aneurysm Sac	A12120-2,MRUS,Aortic Endograft Residual Aneurysm Sac
EVAR Inflow	A12120-3,MRUS,Aortic Endograft Inflow
EVAR Graft Body	A12120-4,MRUS,Aortic Endograft Graft Body
EVAR Limb	A12120-5,MRUS,Aortic Endograft Limb
EVAR Outflow	A12120-6,MRUS,Aortic Endograft Outflow
Aortic Bypass Graft Anast	A12120-7,MRUS,Aortic Bypass Graft Anastomosis
Aortic Bypass Graft Graft	A12120-8,MRUS,Aortic Bypass Graft Graft
URO Artery Anast Transplant 1	A12120-9,MRUS,Artery Anastomosis
URO Artery Anast 2 Transplant 1	A12120-10,MRUS,Artery Anastomosis2
Arterial Post Aorta	A12120-21,MRUS,Arterial Post Abdominal Aorta
Arterial Post Celiac Axis	A12120-22,MRUS,Arterial Post Celiac Axis
Hepatic Artery	A12120-23,MRUS,Hepatic Artery
Arterial Post SMA	A12120-24,MRUS,Arterial Post SMA
Arterial Post Com Hepatic A	A12120-25,MRUS,Arterial Post Com Hepatic A
Arterial Post Proper Hepatic A	A12120-26,MRUS,Arterial Post Proper Hepatic A
Arterial Post Hepatic A	A12120-27,MRUS,Arterial Post Hepatic A
Arterial Post Splenic Artery	A12120-28,MRUS,Arterial Post Splenic Artery
Arterial Post GDA	A12120-29,MRUS,Arterial Post GDA
Arterial Post IMA	A12120-30,MRUS,Arterial Post IMA
EVAR Residual Aneurysm Sac	A12120-31,MRUS,EVAR Residual Aneurysm Sac
EVAR Inflow	A12120-32,MRUS,EVAR Inflow
EVAR Graft Body	A12120-33,MRUS,EVAR Graft Body
EVAR Limb	A12120-34,MRUS,EVAR Limb
EVAR Outflow	A12120-35,MRUS,EVAR Outflow
Aortic Bypass Graft Anast	A12120-41,MRUS,Aortic Bypass Graft Anast
Aortic Bypass Graft Graft	A12120-42,MRUS,Aortic Bypass Graft Graft
Stenosis 1	A12120-43,MRUS,ABD Stenosis 1
Stenosis 2	A12120-44,MRUS,ABD Stenosis 2
Stenosis 3	A12120-45,MRUS,ABD Stenosis 3
Stenosis 4	A12120-46,MRUS,ABD Stenosis 4
Celiac Axis 2D	T-46400,SRT,Celiac Axis
Com Hepatic A 2D	T-46421,SRT,Common Hepatic Artery
GDA 2D	T-46440,SRT,Gastroduodenal Artery
IMA 2D	T-46520,SRT,Inferior Mesenteric Artery

Proper Hepatic A 2D	T-46422,SRT,Proper Hepatic Artery
Splenic A 2D	T-46460,SRT,Splenic Artery
SMA 2D	T-46510,SRT,Superior Mesenteric Artery
EVAR Residual Aneurysm Sac 2D	A12120-2,MRUS,Aortic Endograft Residual Aneurysm Sac
EVAR Inflow 2D	A12120-3,MRUS,Aortic Endograft Inflow
EVAR Graft Body 2D	A12120-4,MRUS,Aortic Endograft Graft Body
EVAR Limb 2D	A12120-5,MRUS,Aortic Endograft Limb
EVAR Outflow 2D	A12120-6,MRUS,Aortic Endograft Outflow
Aortic Bypass Graft Graft 2D	A12120-7,MRUS,Aortic Bypass Graft Anastomosis
Aortic Bypass Graft Graft 2D	A12120-8,MRUS,Aortic Bypass Graft Graft
Aorta Aneurysm	A12120-12,MRUS,Abdominal Aorta Aneurysm
Celiac Axis Aneurysm	A12120-13,MRUS,Celiac Axis Aneurysm
SMA Aneurysm	A12120-14,MRUS,Superior Mesenteric Arterial Aneurysm
Com Hepatic A Aneurysm	A12120-15,MRUS,Com Hepatic A Aneurysm
Proper Hepatic A Aneurysm	A12120-16,MRUS,Proper Hepatic A Aneurysm
Hepatic A Aneurysm	A12120-17,MRUS,Hepatic A Aneurysm
Splenic A Aneurysm	A12120-18,MRUS,Splenic Arterial Aneurysm
GDA Aneurysm	A12120-19,MRUS,Gastroduodenal Arterial Aneurysm
IMA Aneurysm	A12120-20,MRUS,Inferior Mesenteric Arterial Aneurysm
Hepatic.A.2D	A12120-23,MRUS,Hepatic Artery
EVAR.Residual.Aneurysm.Sac.2D	A12120-31,MRUS,EVAR Residual Aneurysm Sac
EVAR.Inflow.2D	A12120-32,MRUS,EVAR Inflow

EVAR.Graft.Body.Bodyow

M Hepatic V	T-48726,SRT,Middle Hepatic Vein
Portal V	T-48810,SRT,Portal Vein
IVC	T-48710,SRT,Inferior Vena Cava
Splenic V	T-48890,SRT,Splenic Vein
SMV	T-48840,SRT,Superior Mesenteric Vein
M Portal V	V12114-01,MRUS,Main Portal Vein
IMV	T-

Artery.Anast.Transplant.2	A12115-22,MRUS,Artery Anast Transplant 2
Artery.Anast.2.Transplant.2	A12115-23,MRUS,Artery Anast 2 Transplant 2
Vein.Anast.Transplant.2	V12115-08,MRUS,Vein Anast Transplant 2
Vein.Anast.2.Transplant.2	V12115-09,MRUS,Vein Anast 2 Transplant 2
Renal.A.Aneurys	A12115-05,MRUS,Renal A Aneurysm
Renal.A.2D	T-46600,SRT,Renal Artery

D. Appendix : Breast Imaging structured reporting template

This appendix lists the DICOM Structured Report (SR) mappings used in the Breast Structured Reports of ultrasound system SR files.

The mappings are organized in a manner similar to the DICOM SR Templates as described in PS 3.16 of the DICOM Standard. The Breast Report mappings follow the DICOM SR Template TID 4200: Breast Imaging Report, except where noted.

All private code values use the Coding Scheme Designator "MRUS".

D.1. TID 1400 Linear Measurement Template

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			NUM	DCID			UNITS = DCID(7460)
2	>	INFERRED FROM	SCOORD	EV (121055,DCM,			
3	>>	R-SELECTED FROM	IMAGE				
4	>>	SELECTED FROM	IMAGE				
5	>	INFERRED FROM	SCOORD	EV (121230, DCM, !			
6	>>	R-SELECTED FROM	IMAGE				
7	>>	SELECTED FROM	IMAGE				

D.2. TID (4200) BREAST IMAGING REPORT

This is the template for the root the content tree for the breast ultrasound procedure report.

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (111400, □			
2	>	HAS	INCLUDE	DTID (1204) Language of			

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
		CONCEPT MOD		Content Item and Descendants			
3	>	CONTAINS	INCLUDE	DTID (4202) Breast Imaging Report Narrative			
4	>	CONTAINS	CONTAINER				
5	>>	CONTAINS	IMAGE	No purpose of reference			
6	>	CONTAINS	INCLUDE	DTID (SELFTMP-3) BREAST IMAGING SUMMAY			
7	>	CONTAINS	INCLUDE	DTID (4208) Breast Imaging Report Supplementary Data			
8	>	CONTAINS	TEXT	(20121120,MRUS, self-defined-measurementfile)			

D.3. TID (4201) BREAST IMAGING PROCEDURE REPORTED

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CODE	EV (121058,			DCID (6050) Breast Procedure Reported
2	>	HAS CONCEPT MOD	CODE	EV (111464,)			DCID (6058) Procedure Modifiers for Breast
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, □			QQ EMC q380.83 2940

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
7	>>>	HAS PROPERTIES	CODE	EV (G-C171, □			DCID (6022) Side
8	>	HAS PROPERTIES	DATE	EV (111060,			

D.4. TID (4202) BREAST IMAGING REPORT NARRATIVE

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (111412, DCM,			
2	>	CONTAINS	CONTAINER	BCID (6052) Breast Imaging Report Section Title			
3	>>	HAS OBS CONTEXT	INCLUDE	DTID (1002) Observer Context			
4	>>	CONTAINS	TEXT	BCID (6053) Breast Imaging Report Elements			DCM 121058 Procedure reported
5	>>>	INFERRED FROM	INCLUDE	DTID (350) References to Supporting Evidence			

D.5. TID (SELFTMP-3) BREAST IMAGING SUMMAY

This is a private template referenced by TID(4200).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (121111, DCM, "Summary")			
2	>	CONTAINS	TEXT	EV (121106, DCM, "Comment")			
3	>	CONTAINS	TEXT	EV (I12101- □			
4	>	CONTAINS	TEXT	EV (I12101- □ Second			
5	>	CONTAINS	TEXT	EV (I12101-03 □			
6	>	CONTAINS	TEXT	EV (I12101-04 □			

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
7	>	CONTAINS	NUM	EV (8302-			
8	>	CONTAINS	NUM	EV (29463-7, LN, "Patient Weight")			
9	>	CONTAINS	TEXT	! □			
10	>	CONTAINS	TEXT	EV (I12101- □			
11	>	CONTAINS	TEXT	! □			

D.6. TID (4206) BREAST IMAGING REPORT FINDING SECTION

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (121070,			
2	>	HAS OBS CONTEXT	INCLUDE	DTID (1002) Observer Context			
3	>	CONTAINS	INCLUDE	DTID (4201) Breast Imaging Procedure Reported			
4	>	CONTAINS	CODE	DTID (SELFTMP-4) BREAST IMAGING MASS FINDING	**(10 findings)**		
5	>	CONTAINS	INCLUDE	EV (T6006-11, MRUS			
6	>	CONTAINS	INCLUDE	EV (T6006-13, MRUS			

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
2	>	CONTAINS	INCLUDE	DTID (4201) Breast Imaging Procedure Reported			
3	>	CONTAINS	CODE	!			DCID (230) Yes-No
4	>	CONTAINS	CODE	!			DCID (230) Yes-No
5	>	CONTAINS	INCLUDE	DTID (4205) Breast Composition Section			
6	>	CONTAINS	INCLUDE	DTID (4206) Breast Imaging Report Finding Section			
7	>	CONTAINS	INCLUDE	DTID (4204) Breast Imaging Report Intervention Section			
8	>	CONTAINS	CONTAINER	!			
9	>>	CONTAINS	INCLUDE	DTID (4203) Breast Imaging Assessment			

D.8. TID (SELFTMP-4) BREAST MASS FINDING

This is a private template referenced by TID(4206).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CODE	EV (121071			
2	>	HAS OBS CONTEXT	TEXT	EV (M-03000, SRT Mass			
3	>>	HAS PROPERTIES	INCLUDE	DTID (SELFTMP-5) BREAST IMAGING MASS MEASUREMENT			
4	>>	HAS PROPERTIES	INCLUDE	DTID (SELFTMP-6) BREAST IMAGING MASS MEASUREMENT ANALYSIS			

D.9. TID (SELFTMP-5) BREAST MASS MEASUREMENT

This is a private template referenced by TID (SELFTMP-4).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (125007 Measurement Group			
2	>	CONTAINS	INCLUDE	DTID (1400) Linear Measurement Template			"$Measurement = G-A22A, SRT, ""Length"";$Laterality = $Laterality;$Section = 6019"
3	>	CONTAINS	INCLUDE	DTID (1400) Linear Measurement Template			"$Measurement = G-A220, SRT, ""Width"";$Laterality = $Laterality;$Section = 6019"
4	>	CONTAINS	INCLUDE	DTID (1400) Linear Measurement Template			"$Measurement = 121207, DCM, ""Height"";$Laterality = $Laterality;$Section = 6019"
5	>	CONTAINS	INCLUDE	DTID (1400) Linear Measurement Template			"$Measurement = 121242, DCM, ""Distance from nipple"";$Laterality = $Laterality;$Section = 6019"
6	>	CONTAINS	INCLUDE	DTID (1400) Linear Measurement Template			"$Measurement = 121243, DCM, ""Distance from skin"";$Laterality = $Laterality;$Section = 6019"

D.10. TID (SELFTMP-6) BREAST MASS ANALYSIS

This is a private template referenced by TID (SELFTMP-4).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1	>	CONTAINS	TEXT	EV (M-020F9, SRT			
2	>	CONTAINS	TEXT	EV (T6006-1, MRUS			
3	>	CONTAINS	TEXT	EV (T6006- □			
4	>	CONTAINS	TEXT	EV (T6006-3, □			
5	>	CONTAINS	TEXT	EV (T6006-4 □			
6	>	CONTAINS	TEXT	EV (T6006-5 □			
7	>	CONTAINS	TEXT	EV (T6006-14, □ !			
8	>	CONTAINS	TEXT	EV (T6006-7,			

NL	Rel with Parent	VT	Concept Name	Used in MODALITY

NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
14	>	CONTAINS	INCLUDE	DTID (0108) Abdomen Ultrasound Section			$SectionScope=T-73000,SRT,Ureter;$SectionLaterality = G-A100, SRT,Right
15	>	CONTAINS	INCLUDE	DTID (0109) Abdomen Ultrasound Section			$SectionScope=T-47040,SRT,Bladder;$SectionLaterality = G-A103, SRT,Unilateral
16	>	CONTAINS	INCLUDE	DTID (SELFTMP_5103_9) Vascular Ultrasound Section			$SectionScope=T-71019,SRT,Vascular Structure Of Kidney;$SectionLaterality = G-A101, SRT,Left;$AnatomyRatio = 12124
17	>	CONTAINS	INCLUDE	DTID (SELFTMP_5103_9) Vascular Ultrasound Section			$SectionScope=T-71019,SRT,Vascular Structure Of Kidney;$SectionLaterality = G-A100, SRT,Right;$AnatomyRatio = 12124
18	>	CONTAINS	INCLUDE	DTID (SELFTMP_5103_7) Vascular Ultrasound Section			$SectionScope=T-46002,SRT,Artery of Abdomen
19	>	CONTAINS	INCLUDE	DTID (SELFTMP_5103_8) Vascular Ultrasound			$SectionScope=T-487A0,SRT,Vein of

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
				Section			Abdomen

			AINER				
2	>	CONTAINS	NUM	EV (121033, DCM,		Units = DCID (7456) Units of Measure for Age	
3	>	CONTAINS	CODE	EV (121032, DCM,		DCID (7455) Sex	
4	>	CONTAINS	NUM	EV (8302-2, LN,			
5	>	CONTAINS	NUM	EV (29463-7, LN, "Patient Weight")			
6	>	CONTAINS	NUM	EV (F-01860, SRT, "Body Mass Index")		!	
7	>	CONTAINS		MRUS 121118-1 Fasting			
8	>	CONTAINS					

E.3. TID (0102) Abdomen Procedure Summary Section

This is a private template referenced by TID(0100).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	COMMENT
1			CONTAINER				

				Description")			
7	>	CONTAINS	TEXT	EV (121106, DCM, "Comment")			From report comment

E.4. TID (0103) Abdomen Ultrasound Section

This is a private template referenced by TID(0100).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT,		$SectionScope	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = DCID(62000)	

E.5. TID (0104) Abdomen Ultrasound Section

This is a private template referenced by TID(0100).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, □		$SectionScope	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, □		$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = DCID(63000)	

5	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (MT-73000-01, □ ;	
6	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV CT-62000-01 MRUS Liver Vol ;	
7	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV MT-62000-21 MRUS Skin-L.Capsule Dist. ;	
8	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV MT-62000-22 MRUS R Liver Lobe ;	
9	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV ;	

E.6. TID (0105) Abdomen Ultrasound Section

This is a private template referenced by TID(0100).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT,		$SectionScope	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = DCID(65010)	
5	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV	
6	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement =EV	

7	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV	
8	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV	
9	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV	

E.7. TID (0106) Abdomen Ultrasound Section

This is a private template referenced by TID(0100).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT,		$SectionScope	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = DCID(3000)	

E.8. TID (0107) Abdomen Ultrasound Section

This is a private template referenced by TID(0100).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,			

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, □		$SectionScope	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = DCID(74000)	

E.11. TID (0110) Abdomen Ultrasound Section

This is a private template referenced by TID(0100).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, □		$SectionScope = DT (T- □ □	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality = EV (G- □	
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = DCID(74000)	
5	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (T-59200,SRT,Appendix);	

6	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (MT-59600-1,MRUS Appendix Wall ;	
7	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (MT-59600-2,MRUS Pylorus ;	
8	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (MT-59600-3,MRUS Pylorus Wall ;	

E.12. TID (0111) Abdomen Ultrasound Section

This is a private template referenced by TID(0100).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, □		$SectionScope = DT (T- □	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality = $SectionLaterality = EV (G-A103, □	
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = $AnatomyRatio	
5	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (MT-D0070-1,MRUS,Free Fluid)	

E.13. TID (SELFTMP_5103_7) Vascular Ultrasound Section

This is a private template referenced by TID(0100).

	NL	**Rel with Parent**	**VT**	**Concept Name**	**Used in MODALITY**	**Value Set Constraint**	**Comment**

1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, □		$SectionScope	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group		$AnatomyGroup = $Anatomy= DCID (12112) Abdominal Arteries (unilateral); $Modifier =DCID(12116)	
5	>	CONTAINS	INCLUDE	EV (T-46002, □		$Measurement = EV (T-46002, SR); $Modifier = DCID(12116)	
6	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (C12119-2 □ ;	
7	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (C12119-1 □ ;	
8	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-14, □ ;	
9	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-15, □ ;	
10	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-16, □ ;	
11	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-19, □ ;	

12	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-20, □ Abdominal Aorta ;	
13	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-13, □ ;	
14	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-21, □ ;	
15	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (C12120-1, □ Mesenteric Artery Peak Systolic Velocity/Abdominal Aorta ! ;	
16	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (C12120-2, □ eliac Axis Peak Systolic Velocity/Abdominal Aorta ! ;	

4	>	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group	

				Group		(unilateral); $Modifier =DCID(12116)	
5	>	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group		$AnatomyGroup = $Anatomy= EV (T-46600 □ □ Artery ; $Modifier = (G- □)	
6	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (C12119-3 □ Renal Aortic Ratio ; $Laterality=$SectionLaterality	

E.16. TID (SELFTMP_5103_10) Vascular Ultrasound Section

This is a private template referenced by TID(0100).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			

E.17. Mapping between Modality measurements and DICOM Concepts.

E.17.1. Abdomen Measurements

MODALITY Label	*DICOM Mapping*
Liver	MT-62000-01 MRUS Liver Diamete
Hepatic Lesion1 d1	MT-62000-02 MRUS Hepatic Lesion1 d1
Hepatic Lesion1 d2	MT-62000-03 MRUS Hepatic Lesion1 d2
Hepatic Lesion1 d3	MT-62000-04 MRUS Hepatic Lesion1 d3
Hepatic Lesion2 d1	MT-62000-05 MRUS Hepatic Lesion2 d1
Hepatic Lesion2 d2	MT-62000-06 MRUS Hepatic Lesion2 d2
Hepatic Lesion2 d3	MT-62000-07 MRUS Hepatic Lesion2 d3
Hepatic Lesion3 d1	MT-62000-08 MRUS Hepatic Lesion3 d1
Hepatic Lesion3 d2	MT-62000-09 MRUS Hepatic Lesion3 d2
Hepatic Lesion3 d3	MT-62000-10 MRUS Hepatic Lesion3 d3
Hepatic Cyst1 d1	MT-62000-11 MRUS Hepatic Cyst1 d1
Hepatic Cyst1 d2	MT-62000-12 MRUS Hepatic Cyst1 d2
Hepatic Cyst1 d3	MT-62000-13 MRUS Hepatic Cyst1 d3
Hepatic Cyst2 d1	MT-62000-14 MRUS Hepatic Cyst2 d1
Hepatic Cyst2 d2	MT-62000-15 MRUS Hepatic Cyst2 d2
Hepatic Cyst2 d3	MT-62000-16 MRUS Hepatic Cyst2 d3
Hepatic Cyst3 d1	MT-62000-17 MRUS Hepatic Cyst3 d1
Hepatic Cyst3 d2	MT-62000-18 MRUS Hepatic Cyst3 d2
Hepatic Cyst3 d3	MT-62000-19 MRUS Hepatic Cyst3 d3
CHD	MT-62000-20 MRUS Common Hepatic Duct
GB H	MT-63000-01 MRUS Gall Bladder Height
GB L	MT-63000-02 MRUS Gall Bladder Length
GB wall th	MT-63000-03 MRUS Gall Bladder Wall Thickness
CBD	MT-63000-04 MRUS Common Bile Duct
Panc duct	T-65010 SRT Pancreatic duct
Panc head	MT-65010-01 MRUS,Pancreatic Head
Panc body	MT-65010-02 MRUS,Pancreatic Body
Panc tail	MT-65010-03 MRUS,Pancreatic Tail
Spleen L	MT-C3000-01 MRUS Spleen Length

Spleen H	MT-C3000-02 MRUS Spleen Height
Spleen W	MT-C3000-03 MRUS Spleen Width
Spleen Area	MT-C3000-04 MRUS Spleen Area
Spleen Vol	CT-C3000-02 MRUS Spleen Volume
Adrenal H	MT-71000-01 MRUS Adrenal Height
Adrenal L	MT-71000-02 MRUS Adrenal Length
Adrenal W	MT-71000-03 MRUS Adrenal Width
Cortex	MT-71000-04 MRUS Renal Cortical Thickness
Renal H	MT-71000-05 MRUS Renal Height
Renal L	MT-71000-06 MRUS Renal Length
Renal W	MT-71000-07 MRUS Renal Width
Renal Vol	CT-71000-01 MRUS Renal Volume
Renal Vol(0.523)	CT-71000-02 MRUS Renal Volume1
Renal Lesion1 d1	MT-71000-08 MRUS Renal Lesion1 d1
Renal Lesion1 d2	MT-71000-09 MRUS Renal Lesion1 d2
Renal Lesion1 d3	MT-71000-10 MRUS Renal Lesion1 d3
Renal Lesion2 d1	MT-71000-11 MRUS Renal Lesion2 d1
Renal Lesion2 d2	MT-71000-12 MRUS Renal Lesion2 d2
Renal Lesion2 d3	MT-71000-13 MRUS Renal Lesion2 d3
Renal Lesion3 d1	MT-71000-14

Post-BL H	MT-74000-04,MRUS,Posterior-Bladder Height
Post-BL L	MT-74000-05,MRUS,Posterior-Bladder Length
Post-BL W	MT-74000-06,MRUS,Posterior-Bladder Width
Post-BL Vol	CT-74000-02,MRUS,Posterior-Bladder Volume
Mictur.Vol	CT-74000-03,MRUS,Micturated Volume
R.Liver.Lobe	MT-62000-22 MRUS R Liver Lobe
L.Liver.Lobe	MT-62000-23 MRUS L Liver Lobe
GB.Vol	CT-63000-01 MRUS GB Vol
GB.Finding.1	MT-63000-05 MRUS GB Finding 1
GB.Finding.2	MT-63000-06 MRUS GB Finding 2
GB.Finding.3	MT-63000-07 MRUS GB Finding 3
GB.Finding.4	MT-63000-08 MRUS GB Finding 4
GB.Finding.5	MT-63000-09 MRUS GB Finding 5
GB.Finding.1	MT-63000-05 MRUS GB Finding 1
GB.W	MT-63000-10 MRUS Gall Bladder Width
Cystic.Duct	MT-63000-11 MRUS Cystic Duct
Appendix	T-59200,SRT,Appendix
Appendix.Wall	MT-59600-1,MRUS Appendix Wall
Pylorus	MT-59600-2,MRUS Pylorus
Pylorus.Wall	MT-59600-3,MRUS Pylorus Wall
Panc.Finding.1	MT-65010-05 MRUS Panc Finding 1
Panc.Finding.2	MT-65010-06 MRUS Panc Finding 2
Panc.Finding.3	MT-65010-07 MRUS Panc Finding 3
Panc.Finding.4	MT-65010-08 MRUS Panc Finding 4
Panc.Finding.5	MT-65010-09 MRUS Panc Finding 5

E.17.2. Abdominal Arteries

MODALITY Label	***DICOM Mapping***
Abdominal Aorta	T-42000,SRT,Aorta
Celiac Axis	T-46400,SRT,Celiac Axis
C Hepatic A	T-46421,SRT,Common Hepatic Artery
Hepatic A	T-46422,SRT,Proper Hepatic Artery
Splenic A	T-46460,SRT,Splenic Artery
SMA	T-46510,SRT,Superior Mesenteric Artery
IMA	T-46520,SRT,Inferior Mesenteric Artery

Aorta Sten D	C12119-1,MRUS,Aorta Sten D
Aorta Sten A	C12119-2,MRUS,Aorta Sten A
Splenic A Diam	M12119-13,MRUS,Splenic A Diam
Aorta Aneurysm L	M12119-14,MRUS,Abdominal Aorta Aneurysm Length
Aorta Aneurysm H	M12119-15,MRUS,Abdominal Aorta Aneurysm Height
Aorta Aneurysm W	M12119-16,MRUS,Abdominal Aorta Aneurysm Width)
Aorta Diam H	M12119-19,MRUS,Abdominal Aorta Diameter Height
Aorta Diam W	M12119-20,MRUS,Abdominal Aorta Diameter Width
Aorta Bif	M12119-21,MRUS,Abdominal Aorta Bifurcate
Iliac Diam	M12119-23,MRUS,Iliac Diameter
SMA/Ao	C12120-1,MRUS,Superior Mesenteric Artery Peak Systolic Velocity/Abdominal Aorta Peak Systolic Velocity

CA/Ao	**C12120-2,MRUS,Celiac Axis Peak Systolic Velocity/Abdominal Aorta Peak Systolic Velocity**
Free.Fluid.Checklist	MT-D0070-1,MRUS,Free Fluid

E.17.3. Abdominal Veins

MODALITY Label	***DICOM Mapping***
Hepatic V	T-48720,SRT,Hepatic Vein
Left Hepatic V	T-48727,SRT,Left Hepatic Vein
Right Hepatic V	T-48725,SRT,Right Hepatic Vein
M Hepatic V	T-48726,SRT,Middle Hepatic Vein
Portal V	T-48810,SRT,Portal Vein
IVC	T-48710,SRT,Inferior Vena Cava
Splenic V	T-48890,SRT,Splenic Vein
SMV	T-48840,SRT,Superior Mesenteric Vein
M Portal V	V12114-01,MRUS,Main Portal Vein
IMV	T-48910,SRT,Inferior Mesenteric Vein
Splenic V Diam	M12119-12,MRUS,Splenic V Diam
Portal V Diam	M12119-22,MRUS,Portal V Diam

E.17.4. Renal Vessels

MODALITY Label	***DICOM Mapping***
Ren A Org	T-46600,SRT,Renal Artery
Renal A	T-46600,SRT,Renal Artery
Renal V	T-48740,SRT,Renal Vein
Segment A	T-46659, SRT, Segmental Artery
Arcuate A	T-4668A, SRT, Arcuate Artery of the Kidney
Interlobar A	T-4667D, SRT, Interlobar Artery of Kidney
M Renal A	V12115-01, MRUS, Main Renal Artery
RAR	C12119-3,MRUS,Renal Aortic Ratio

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
							rality = EV (G-A101, □ ; $SectionLaterality = EV (G-A100, □ □)
9	>	CONTAINS	INCLUDE	DTID (0104) Small Part Ultrasound Section			$SectionScope = DT (T-94000, □ ; $SectionLaterality = EV (G-A101, □ ; $SectionLaterality = EV (G-A100, □ □)

F.2. TID (1001) Small Part SERVATION CONTEXT

NL	Rel with Parent	VT	Concept Name	Used in MODALITY

F.5. TID (0203) Small Part ULTRASOUND SECTION

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT,		$SectionScope = DT (T-B6000,	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality =EV (G-A101, EV (G-A100,	
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = $AnatomyRatio	

F.6. TID (0204) URO ULTRASOUND SECTION

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,		$SectionScope = DT (T-94000,	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171,		$SectionLaterality =EV (G-A101, EV (G-A100,	
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = $AnatomyRatio	

F.7. TID (SELFTMP_5103_5) VASCULAR ULTRASOUND SECTION

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT,		$SectionScope = DT (T-B6000,	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality =EV (G-A101, EV (G-A100,)	
4	>	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group		$AnatomyGroup = $Anatomy= DCID (12111) Thyroid Arteries (lateral)	
5	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = $AnatomyRatio	

F.8. CID (12130) Thyroid Measurements

CSD	CV	Code Meaning
DCM	121207	Height
SRT	G-D7FE	Length
DCM	122445	Wall Thickness
SRT	G-D705	Volume

CSD	CV	Code Meaning
MRUS	MT-B6000-07	Thyroid Mass3 d1
MRUS	MT-B6000-08	Thyroid Mass3 d2
MRUS	MT-B6000-09	Thyroid Mass3 d3
MRUS	MT-B6000-10	Thyroid Isthmus Height
MRUS	MT-B6000-11	Thyroid Cyst1 d1
MRUS	MT-B6000-12	Thyroid Cyst1 d2
MRUS	MT-B6000-13	Thyroid Cyst1 d3
MRUS	MT-B6000-14	Thyroid Cyst2 d1
MRUS	MT-B6000-15	Thyroid Cyst2 d2
MRUS	MT-B6000-16	Thyroid Cyst2 d3
MRUS	MT-B6000-17	Thyroid Cyst3 d1
MRUS	MT-B6000-18	Thyroid Cyst3 d2
MRUS	MT-B6000-19	Thyroid Cyst3 d3
MRUS	MT-B6000-20	Thyroid Nodule1 d1
MRUS	MT-B6000-21	Thyroid Nodule1 d2
MRUS	MT-B6000-22	Thyroid Nodule1 d3
MRUS	MT-B6000-23	Thyroid Nodule2 d1
MRUS	MT-B6000-24	Thyroid Nodule2 d2
MRUS	MT-B6000-25	Thyroid Nodule2 d3
MRUS	MT-B6000-26	Thyroid Nodule3 d1
MRUS	MT-B6000-27	Thyroid Nodule3 d2
MRUS	MT-B6000-28	Thyroid Nodule3 d3
MRUS	MT-B6000-29	Thyroid(Sup) Height
MRUS	MT-B6000-30	Thyroid(Sup) Width
MRUS	MT-B6000-31	Thyroid(Mid) Height
MRUS	MT-B6000-32	Thyroid(Mid) Width
MRUS	MT-B6000-33	Thyroid(Inf) Height
MRUS	MT-B6000-34	Thyroid(Inf) Width
MRUS	MT-B6000-35	Parathyroid 1 Height
MRUS	MT-B6000-36	Parathyroid 1 Width
MRUS	MT-B6000-37	Parathyroid 1 Length
MRUS	CT-B6000-1	Parathyroid 1 Volume
MRUS	MT-B6000-38	Parathyroid 2 Height
MRUS	MT-B6000-39	Parathyroid 2 Width
MRUS	MT-B6000-40	Parathyroid 2 Length

CSD	CV	Code Meaning
MRUS	CT-B6000-2	Parathyroid 2 Volume
MRUS	MT-B6000-41	Parotid Height
MRUS	MT-B6000-42	Parotid Width
MRUS	MT-B6000-43	Parotid Length
MRUS	CT-B6000-3	Parotid Volume
MRUS	MT-B6000-44	Lymph Node1 Height
MRUS	MT-B6000-45	Lymph Node1 Width
MRUS	MT-B6000-46	Lymph Node1 Length
MRUS	CT-B6000-4	Lymph Node1 Volume
MRUS	MT-B6000-47	Lymph Node2 Height
MRUS	MT-B6000-48	Lymph Node2 Width
MRUS	MT-B6000-49	Lymph Node2 Length
MRUS	CT-B6000-5	Lymph Node2 Volume
MRUS	MT-B6000-50	Lymph Node3 Height
MRUS	MT-B6000-51	Lymph Node3 Width
MRUS	MT-B6000-52	Lymph Node3 Length
MRUS	CT-B6000-6	Lymph Node3 Volume
MRUS	MT-B6000-53	Lymph Node4 Height
MRUS	MT-B6000-54	Lymph Node4 Width
MRUS	MT-B6000-55	Lymph Node4 Length
MRUS	CT-B6000-7	Lymph Node4 Volume
MRUS	MT-B6000-56	Lymph Node5 Height
MRUS	MT-B6000-57	Lymph Node5 Width
MRUS	MT-B6000-58	Lymph Node5 Length
MRUS	CT-B6000-8	Lymph Node5 Volume
MRUS	MT-B6000-59	Lymph Node6 Height
MRUS	MT-B6000-60	Lymph Node6 Width
MRUS	MT-B6000-61	Lymph Node6 Length
MRUS	CT-B6000-9	Lymph Node6 Volume
MRUS	MT-B6000-62	Isthmus Finding 1 d1
MRUS	MT-B6000-63	Isthmus Finding 1 d2
MRUS	MT-B6000-64	Isthmus Finding 1 d3
MRUS	CT-B6000-10	Isthmus Finding 1 Volume
MRUS	MT-B6000-65	Isthmus Finding 2 d1
MRUS	MT-B6000-66	Isthmus Finding 2 d2

CSD	CV	Code Meaning
MRUS	MT-45210-04	Isthmus

F.11. Mapping between Modality measurements and DICOM Concepts.

F.11.1. PED Measurements

MODALITY Label	*DICOM Mapping*
Thy.H	121207,DCM,Height
Thy.L	G-D7FE,SRT,Length
Thy.W	122445,DCM,Wall Thickness
Thy.Vol	G-D705,SRT,Volume
Thy.Vol0.523	G-D705,SRT,Volume
Thy.Mass1.L	MT-B6000-01 MRUS Thyroid Mass1 d1
Thy.Mass1.W	MT-B6000-02 MRUS Thyroid Mass1 d2
Thy.Mass1.H	MT-B6000-03 MRUS Thyroid Mass1 d3
Thy.Mass2.L	MT-B6000-04 MRUS Thyroid Mass2 d1
Thy.Mass2.W	MT-B6000-05 MRUS Thyroid Mass2 d2
Thy.Mass2.H	MT-B6000-06 MRUS Thyroid Mass2 d3
Thy.Mass3.L	MT-B6000-07 MRUS Thyroid Mass3 d1
Thy.Mass3.W	MT-B6000-08 MRUS Thyroid Mass3 d2
Thy.Mass3.H	MT-B6000-09 MRUS Thyroid Mass3 d3
Isthmus.H	MT-B6000-10 MRUS Thyroid Isthmus Height
Thy.Cyst1.L	MT-B6000-11 MRUS Thyroid Cyst1 d1
Thy.Cyst1.W	MT-B6000-12 MRUS Thyroid Cyst1 d2
Thy.Cyst1.H	MT-B6000-13 MRUS Thyroid Cyst1 d3
Thy.Cyst2.L	MT-B6000-14 MRUS Thyroid Cyst2 d1
Thy.Cyst2.W	MT-B6000-15 MRUS Thyroid Cyst2 d2
Thy.Cyst2.H	MT-B6000-16 MRUS Thyroid Cyst2 d3
Thy.Cyst3.L	MT-B6000-17 MRUS Thyroid Cyst3 d1
Thy.Cyst3.W	MT-B6000-18 MRUS Thyroid Cyst3 d2
Thy.Cyst3.H	MT-B6000-19 MRUS Thyroid Cyst3 d3
Thy.Nodule1.L	MT-B6000-20 MRUS Thyroid Nodule1 d1
Thy.Nodule1.W	MT-B6000-21 MRUS Thyroid Nodule1 d2

Thy.Nodule1.H	MT-B6000-22 MRUS Thyroid Nodule1 d3
Thy.Nodule2.L	MT-B6000-23 MRUS Thyroid Nodule2 d1
Thy.Nodule2.W	MT-B6000-24 MRUS Thyroid Nodule2 d2
Thy.Nodule2.H	MT-B6000-25 MRUS Thyroid Nodule2 d3
Thy.Nodule3.L	MT-B6000-26 MRUS Thyroid Nodule3 d1
Thy.Nodule3.W	MT-B6000-27 MRUS Thyroid Nodule3 d2
Thy.Nodule3.H	MT-B6000-28 MRUS Thyroid Nodule3 d3
Thyroid.Superior.H	MT-B6000-29 MRUS Thyroid(Sup) Height
Thyroid.Superior.W	MT-B6000-30 MRUS Thyroid(Sup) Width
Thyroid.Mid.H	MT-B6000-31 MRUS Thyroid(Mid) Height
Thyroid.Mid.W	MT-B6000-32 MRUS Thyroid(Mid) Width
Thyroid.Inferior.H	MT-B6000-33 MRUS Thyroid(Inf) Height
Thyroid.Inferior.W	MT-B6000-34 MRUS Thyroid(Inf) Width
Parathyroid.1.2D.H	MT-B6000-35 MRUS Parathyroid 1 Height
Parathyroid.1.2D.W	MT-B6000-36 MRUS Parathyroid 1 Width
Parathyroid.1.2D.L	MT-B6000-37 MRUS Parathyroid 1 Length
Parathyroid.1.2D.Volume	CT-B6000-1 MRUS Parathyroid 1 Volume
Parathyroid.2.2D.H	MT-B6000-38 MRUS Parathyroid 2 Height
Parathyroid.2.2D.W	MT-B6000-39 MRUS Parathyroid 2 Width
Parathyroid.2.2D.L	MT-B6000-40 MRUS Parathyroid 2 Length
Parathyroid.2.2D.Volume	CT-B6000-2 MRUS Parathyroid 2 Volume
Parotid.2D.H	MT-B6000-41 MRUS Parotid Height
Parotid.2D.W	MT-B6000-42 MRUS Parotid Width
Parotid.2D.L	MT-B6000-43 MRUS Parotid Length
Parotid.2D.Volume	CT-B6000-3 MRUS Parotid Volume
Lymph.Node.1.H	MT-B6000-44 MRUS Lymph Node1 Height
Lymph.Node.1.W	MT-B6000-45 MRUS Lymph Node1 Width
Lymph.Node.1.L	MT-B6000-46 MRUS Lymph Node1 Length
Lymph.Node.1.Volume	CT-B6000-4 MRUS Lymph Node1 Volume
Lymph.Node.2.H	MT-B6000-47 MRUS Lymph Node2 Height
Lymph.Node.2.W	MT-B6000-48 MRUS Lymph Node2 Width
Lymph.Node.2.L	MT-B6000-49 MRUS Lymph Node2 Length
Lymph.Node.2.Volume	CT-B6000-5 MRUS Lymph Node2 Volume
Lymph.Node.3.H	MT-B6000-50 MRUS Lymph Node3 Height
Lymph.Node.3.W	MT-B6000-51 MRUS Lymph Node3 Width
Lymph.Node.3.L	MT-B6000-52 MRUS Lymph Node3 Length

Lymph.Node.3.Volume	CT-B6000-6 MRUS Lymph Node3 Volume
Lymph.Node.4.H	MT-B6000-53 MRUS Lymph Node4 Height
Lymph.Node.4.W	MT-B6000-54 MRUS Lymph Node4 Width
Lymph.Node.4.L	MT-B6000-55 MRUS Lymph Node4 Length
Lymph.Node.4.Volume	CT-B6000-7 MRUS Lymph Node4 Volume
Lymph.Node.5.H	MT-B6000-56 MRUS Lymph Node5 Height
Lymph.Node.5.W	MT-B6000-57 MRUS Lymph Node5 Width
Lymph.Node.5.L	MT-B6000-58 MRUS Lymph Node5 Length
Lymph.Node.5.Volume	CT-B6000-8 MRUS Lymph Node5 Volume
Lymph.Node.6.H	MT-B6000-59 MRUS Lymph Node6 Height
Lymph.Node.6.W	MT-B6000-60 MRUS Lymph Node6 Width
Lymph.Node.6.L	MT-B6000-61 MRUS Lymph Node6 Length
Lymph.Node.6.Volume	CT-B6000-9 MRUS Lymph Node6 Volume
Isthmus.Finding.1.d1	MT-B6000-62 MRUS Isthmus Finding 1 d1
Isthmus.Finding.1.d2	MT-B6000-63 MRUS Isthmus Finding 1 d2
Isthmus.Finding.1.d3	MT-B6000-64 MRUS Isthmus Finding 1 d3
Isthmus.Finding.1.Volume	CT-B6000-10 MRUS Isthmus Finding 1 Volume
Isthmus.Finding.2.d1	MT-B6000-65 MRUS Isthmus Finding 2 d1
Isthmus.Finding.2.d2	MT-B6000-66 MRUS Isthmus Finding 2 d2
Isthmus.Finding.2.d3	MT-B6000-67 MRUS Isthmus Finding 2 d3
Isthmus.Finding.2.Volume	CT-B6000-11 MRUS Isthmus Finding 2 Volume
Isthmus.Finding.3.d1	MT-B6000-68 MRUS Isthmus Finding 3 d1
Isthmus.Finding.3.d2	MT-B6000-69 MRUS Isthmus Finding 3 d2
Isthmus.Finding.3.d3	MT-B6000-70 MRUS Isthmus Finding 3 d3
Isthmus.Finding.3.Volume	CT-B6000-12 MRUS Isthmus Finding 3 Volume
Thy.Depth	MT-B6000-71 MRUS Thyroid Depth

F.11.2. URO Measurements

MODALITY Label	***DICOM Mapping***
Testis.H	121207,DCM,Height
Testis.L	G-D7FE,SRT,Length
Testis.W	122445,DCM,Wall Thickness
Testis.Vol	G-D705,SRT,Volume
Epididymis.H	121207,DCM,Height
Epididymis.L	G-D7FE,SRT,Length

Epididymis.W	122445,DCM,Wall Thickness
Testis.Mass1.L	MT-94000-01 MRUS Testicular Mass1 d1
Testis.Mass1.W	MT-94000-02 MRUS Testicular Mass1 d2
Testis.Mass1.H	MT-94000-03 MRUS Testicular Mass1 d3
Testis.H	121207,DCM,Height
Testis.Mass2.L	MT-94000-04 MRUS Testicular Mass2 d1
Testis.Mass2.W	MT-94000-05 MRUS Testicular Mass2 d2
Testis.Mass2.H	MT-94000-06 MRUS Testicular Mass2 d3
Testis.Mass3.L	MT-94000-07 MRUS Testicular Mass3 d1
Testis.Mass3.W	MT-94000-08 MRUS Testicular Mass3 d2
Testis.Mass3.H	MT-94000-09 MRUS Testicular Mass3 d3

F.11.3. Thyroid Arteries (Left &Right)

MODALITY Label	***DICOM Mapping***
STA	T-45210,SRT, Superior thyroid artery
ITA	MT-45210-01,MRUS, Inferior Thyroid artery
Parathyroid.1	MT-45210-02,MRUS, Parathyroid 1
Parathyroid.2	MT-45210-03,MRUS, Parathyroid 2
Isthmus	MT-45210-04,MRUS, Isthmus

G. Appendix : PED Imaging structured reporting template

G.1. TID (9100) PED ULTRASOUND REPORT

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	DT (125100, DCM, "Ultrasound Procedure Report")	1	M		
3	>	HAS OBS CONTEXT	INCLUDE	DTID (1001) Observation Context	1	M		
4	>	CONTAINS	INCLUDE	DTID (0101a) ped Patient Characteristics	1	U		
5	>	CONTAINS	CONTAINER	!	1	U		
6	>>	CONTAINS	IMAGE	DTID (SELF_IMG) PED Patient Characteristics	1-n	M		
8	>	CONTAINS	INCLUDE	DTID (0104) PED Ultrasound Section	1	U		

G.2. TID (1001) PED SERVATION CONTEXT

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Value Set Constraint
	>	HAS OBS CONTEXT	CODE	EV (121005,DCM,			

VM

							Patient Module
	>	HAS OBS CONTEXT	CODE	EV (121032,DCM, "Subject	1	U	value equivalent to (0010,0040) in Patient Module
	>	HAS OBS CONTEXT	NUM	EV (121033,DCM, "Subject	1	U	(0010,1010) in Patient Study Module

G.3. TID (0101a) PED Patient Characteristics

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (121118, DCM,	1	M		
2	>	CONTAINS	NUM	EV (121033, DCM,	1	U		Units = DCID (7456) Units of Measure for Age
3	>	CONTAINS	CODE	EV (121032, DCM,	1	U		DCID (7455) Sex
4	>	CONTAINS	NUM	EV (8302- nt	1	U		
5	>	CONTAINS	NUM	EV (29463-7, LN,	1	U		

G.4. TID (0104) PED ULTRASOUND SECTION

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	DT (121070,	1	M		
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,	1	M		$SectionScope
3	>	CONTAINS	INCLUDE	DTID (ped) Measurement	1-n	U		$Laterality=244

G.5. TID (ped) PED ULTRASOUND SECTION

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	DT (125007, DCM, Measurement Group)	1	M		
2	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,	1	M		$Laterality
3	>	CONTAINS	INCLUDE	DTID (300) Measurement	1-n	U		$Measurement =DCID(ped); $Laterality=$Laterality

G.6. CID(ped) PED Measurements

CSD	CV	Code Meaning
MRUS	MT-91000-01	ALPHA
MRUS		BET83 04f* EMC /Span <</

H. Appendix : OB Measurements supporting Viewpoint

H.1. Vascular

Measurement	DICOM Mapping
Ut A	SRT ,T-46820 ,Uterine Artery
MCA	SRT ,T-45600 ,Middle Cerebral Artery
Ductus Veno	99VP ,VP-0001 ,Ductus Venosus
Ductus Art	99VP ,VP-0004 ,Ductus Arteriosus
ICA	SRT ,T-46400 ,Celiac artery
Celiac A	SRT ,T-46400 ,Celiac artery

H.2. Vascular Properties

Measurement	***DICOM Mapping***
ED	LN,11653-3,End Diastolic Velocity
MD	LN,11665-7 ,Minimum Diastolic Velocity
PS	11726-7 ,Peak Systolic Velocity
TAMEAN	LN,20352-1,Time averaged mean velocity
TAMAX	LN ,11692-1,Time averaged peak velocity
PI	LN,12008-9,Pulsatility Index
RI	LN,12023-8,Resistivity Index
S/D	LN,12144-2,Systolic to Diastolic Velocity Ratio
VTI	20354-7, LN, Velocity Time Integral
HR	LN,8867-4,Heart Rate

H.3. Fetal Cardiac

Measurement	Finding Site	DICOM Mapping
MV E	GEK ,99909-1, Mitral Valve	99909-2 ,GEK, E-Wave
MV A	GEK, 99909-1 ,Mitral Valve	99909-3 ,GEK, A-Wave
MV E/A	GEK, 99909-1 ,Mitral Valve	99909-4 ,GEK, E/A

TV E	GEK ,99908-1 ,Tricuspid Valve	99908-2 ,GEK ,E-Wave
TV A	GEK, 99908-1 ,Tricuspid Valve	99908-3 ,GEK, A-Wave
TV E/A	GEK, 99908-1 ,Tricuspid Valve	99908-4 ,GEK, E/A
AV PV	GEK ,99914-1 ,Aortic Valve	99914-2 ,GEK, V max
AV TPV	GEK ,99914-1 ,	

Ovary H
Ovary W
Follicle1 d1
Follicle1 d2
Follicle1 d3
Follicle1 MD
Follicle1 Vol
Ovary Vol
UT Vol
GS
Sac Diam1
Sac Diam2
Sac Diam3
CRL
BPD
HC
AC
FL
OFD

APAD
TAD
THD
APTD
YS
HUM
Ulna
Tibia
RAD
FIB
CLAV
TCD
OOD
Vertebrae
NT
HW
NF
Cervix L
FHR
LVW
IOD

Foot
TC
AF1
AF2
AF3
AF4
AFI
EFW
EFW12
FL/AC
FL/BPD
FL/HC