DICOM CONFORMANCE STATEMENT

FOR

Resona A20 series

DIAGNOSTIC ULTRASOUND SYSTEM

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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** in DICOM Storage (en) Application Profiles define 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

- Storage AE (as SCU and SCP)
- Storage Commitment AE SCU
- Print AE (as SCU)
- Worklist AE (as SCU)
- MPPS AE (as SCU)
- Query/Retrieve AE (as SCU)

4.1.2 Functional Definitions of AE s

4.1.2.1 Verification AE

The ultrasound system supports the Verification service as a SCU and SCP.

As a SCU, verification is activated when the verify button is selected on the dicom service configuration page where the verification results will also be showed to the user.

As a SCP, verification AE waits in the background for connections, will accept associations with Presentation Contexts for SOP Class of the Verification Service Class, and will respond successfully to echo requests.

4.1.2.2 Storage AE

As a SCU, the Storage AE originates associations for the transfer of DICOM Ultrasound single frame images, multi-frame images, secondary capture images, comprehensive structured reports ,and Encapsulated PDFs to remote AE (selected from a pre-configured list)..

The system supports automatic and manual storage.

The operations for automatic storage service are described below:

- Operation 1

O -6A O ing/printing A A *

Step 2: End Exam, the ended exam (maybe include images, SRs, PDFs) would automatically send to the default storage service SCPs which are set to be default in the DICOM service preset dialog.

- Operation 2

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

Step 2: Set the shortcut key which means sending image to the default DICOM storage SCPs.

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

The operations for manual storage service are described below:

- Operation 1

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

O . 6L O @P KI O

Notes: This @ B @F?KI (DICOM print will be not active until one page is filled with the images or the exam end. For (@ B OP=J@=N@. (/ (@F?KI 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.

O . 6L O @COM 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 O 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: L O @F?KI 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 O P print SCPs.

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

4.1.2.5 Worklist AE

The Worklist AE is activated through the Worklist UI when the user selects a remote AE to query (from a pre-configured list).The system supports automatic and manual query

retrieve ultrasound images or structed reports, whose modality atrributes are "US" or "SR", but will leap all the other ones. Furthermore, the retrieval destination is only local host.

The system initiates a C-MOVE request to the remote Retrieve SCP when user selects items to retrieve. The remote Retrieve SCP in turn starts C-STORE sub operations to the ultrasound system.

User can discover lists number for queried items, as well as retrieval items. And the lists can be sorted in ascending or descending order.

4.1.3 Sequence of Real World Activities

All SCP activities are performed asynchronously in the background and not dependent on any sequencing.

All SCU activities are sequentially initiated in the user interface, and another activity may not be initiated until the prior activity has completed.

4.2 AE Specifications

4.2.1 Modality AE

4.2.1.1 SOP Classes

The ultrasound system provides Standard Conformance to the following SOP Class:

Table 5
SOP Class for Modality AE

SOP Class Name	SOP Class UID	SCU	SCP
Verification SOP Class	1.2.840.10008.1.1	Yes	Yes
US Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Yes	Yes[1]
US Multiframe Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Yes	Yes[1]
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	No	Yes[1]
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]

		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1])	1.2.840.10008.1.2.4.70	SCU	None
		RLE Lossless	1.2.840.10008.1.2.5	SCU	None
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90	SCU	None
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91	SCU	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	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	None
		JPEG Lossy, Baseline Sequential with Huffman Coding (Process 1)	1.2.840.10008.1.2.4.50	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1])	1.2.840.10008.1.2.4.70	SCU	None
		RLE Lossless	1.2.840.10008.1.2.5	SCU	None
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90	SCU	None
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91	SCU	None
		MPEG2 Main Profile @ Main Level	1.2.840.10008.1.2.4.100	SCU	None
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	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
		JPEG Lossy, Baseline Sequential with Huffman Coding (Process 1)	1.2.840.10008.1.2.4.50	SCU	None

		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1])	1.2.840.10008.1.2.4.70	SCU	None
		RLE Lossless	1.2.840.10008.1.2.5	SCU	None
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90	SCU	None
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91	SCU	None
Comprehensive Structured Report Storage	1.2.840.10008.5.1.4.1.1.88.33	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
Encapsulated PDF Storage	1.2.840.10008.5.1.4.1.1.104.1	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
Enhanced US Volume Storage	1.2.840.10008.5.1.4.1.1.6.2	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
		JPEG Lossy, Baseline Sequential with Huffman Coding (Process 1)	1.2.840.10008.1.2.4.50	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1])	1.2.840.10008.1.2.4.70	SCU	None
		RLE Lossless	1.2.840.10008.1.2.5	SCU	None
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90	SCU	None
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91	SCU	None

4.2.1.3.2.3 SOP Specific Conformance

Storage AE provides Standard Conformance to the Storage Service Class.

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 table

	SOP Common

Reference	Ultrasound Frame of Reference
	Synchronization
Equipment	General Equipment
	Enhanced General Equipment
Image	General Image
	Image Pixel
	Multi-frame Functional Groups
	Multi-frame Dimension
	Acquisition Context
	Enhanced US Image
	SOP Common

Table 20

Patient Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0010,0010)	PN	2	Patient's Name	MWL/USER
(0010,0020)	LO	2	Patient ID	MWL/USER
(0010,0030)	DA	2	Patient's Birth Date	MWL/USER, default is set to zero length
(0010,0040)	CS	2	Patient's Sex	MWL/USER, default is set to zero length
(0010,1000)	LO	3	Other Patient IDs	MWL/USER
(0010,2160)	SH	3	Ethnic Group	MWL
(0010,4000)	LT	3	Patient Comments	MWL/USER

Table 21

General Study Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0008,0020)	DA	2	Study Date	AUTO
(0008,0030)	TM	2	Study Time	AUTO
(0008,0050)	SH	2	Accession Number	MWL/USER, default is set to zero length
(0008,0090)	PN	2	Referring Physician's Name	MWL/USER, default is set to zero length
(0008,1030)	LO	3	Study Description	MWL/USER, default is set to zero length
(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 22

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 23

General Series Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0008,0021)	DA	3	Series Date	AUTO
(0008,0031)	TM	3	Series Time	AUTO
(0008,0060)	CS	1	Modality	
(0008,103E)	LO	3	Series Description	MWL/USER
(0008,1050)	PN	3	Performing Physician's Name	MWL/USER, default is set to zero length
(0008,1070)	PN	3	Operators' Name	MWL/USER, default is set to zero length
(0018,1030)	LO	3	Protocol Name	AUTO set to ExamType
(0018,5100)	CS	2C	Patient Position	Set to zero length
(0020,000E)	UI	1	Series Instance UID	AUTO
(0020,0011)	IS	2	Series Number	AUTO
(0020,0060)	CS	2C	Laterality	Set to zero length
(0040,0244)	DA	3	Performed Procedure Step Start Date	MPPS
(0040,0245)	TM	3	Performed Procedure Step Start Time	MPPS

(0040,0254)	LO	3	Performed Procedure Step Description	MPPS
(0040,0260)	SQ	3	Performed Protocol Code Sequence	MPPS

Table 24

Encapsulated Document Series Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0008,0060)	CS	1	Modality	US
(0020,000E)	UI	1	Series Instance UID	AUTO
(0020,0011)	IS	1	Series Number	AUTO
(0008,103E)	LO	3	Series Description	MWL/USER
(0040,0275)	SQ	3	Request Attributes Sequence	MWL
(0040,1001)	SH	1C	>Requested Procedure ID	MWL
(0040,0009)	SH	1C	>Scheduled Procedure Step ID	MWL
(0040,0007)	LO	3	>Scheduled Procedure Step MWL Description	MWL
(0040,0008)	SQ	3	>Scheduled Protocol Code Sequence	MWL
(0008,0100)	SH	1C	>>Code Value	MWL
(0008,0102)	SH	1C	>>Coding Scheme designator	MWL
(0008,0103)	SH	1C	>>Coding Scheme Version	MWL

				acquisition geometry, encoded as xA, yA, and zA in mm units in the Volume Frame of Reference.
(0020,9309)	FD	1	Volume to Transducer Mapping Matrix	A 4x4 homogeneous transformation matrix that maps the Volume Frame of Reference coordinate system (XV, YV, ZV) to the Transducer Frame of Reference coordinate system (XX,YX, ZX).

Table 28

Synchronization Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0020,0200)	UI	1	Synchronization Frame of Reference UID	-*. *40, *-, , , 4*-1*-*-
(0018,106A)	CS	1	Synchronization Trigger	ATPANJ=H: System is synchronized to the international standard UTC. JK PNECCAN: System is not synchronized.
(0018,1800)	CS	1	Acquisition Time Synchronized	U: Time Synchronized service is enabled. N: Time Synchronized service is not enabled.
(0018,1802)	CS	3	Time Distribution Protocol	OJPL: Time Synchronized service is enabled. Set to zero length: Time Synchronized service is not enabled.

Table 29

General Equipment Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0008,0070)	LO	2	Manufacturer	MINDRAY

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0018,1012)	DA	3	Date of Secondary Capture	AUTO
(0018,1014)	TM	3	Time of Secondary Capture	AUTO

Table 35

Image Pixel Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0028,0010)	US	1	Rows	CONFIG
(0028,0011)	US	1	Columns	CONFIG
(0028,0034)	IS	1c	Pixel Aspect Ratio	/
(7FE0,0010)	OW	1	Pixel Data	

Table 36

Image Pixel Module for MPEG2 MP@ML

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0028,0010)	US	1	Rows	480---the cine rate(0018,0040) is 30; 576---the cine rate(0018,0040) is 25;
(0028,0011)	US	1	Columns	720
(0028,0034)	IS	1c	Pixel Aspect Ratio	/
(7FE0,0010)	OW	1	Pixel Data	

Table 37

VOI LUT Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0028,1050)	DS	1C	Window Center	AUTO
(0028,1051)	DS	1C	Window Width	AUTO

Table 38

SOP Common Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0008,0005)	CS	1C	Specific Character Set	AUTO
(0008,0012)	DA	3	Instance Creation Date	AUTO
(0008,0013)	TM	3	Instance Creation Time	AUTO
(0008,0016)	UI	1C	SOP Class UID	AUTO
(0008,0018)	UI	1C	SOP Instance UID	AUTO

Table 39

US Region Calibration Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0018,6011)	SQ	1	Sequence of Ultrasound Regions	
>(0018,6012)	US	1	Region Spatial Format	AUTO
>(0018,6014)	US	1	Region Data Type	AUTO
>(0018,6016)	UL	1	Region Flags	AUTO
>(0018,6018)	UL	1	Region Location Min X0	AUTO
>(0018,6020)	UL	1	Reference Pixel x0	AUTO
>(0018,6022)	UL	1	Reference Pixel y0	AUTO
>(0018,6028)	UL	1	Ref. Pixel Physical Value X	AUTO
>(0018,602A)	UL	1	Ref. Pixel Physical Value Y	AUTO
>(0018,601A)	UL	1	Region Location Min Y0	AUTO
>(0018,601C)	UL	1	Region Location Max X1	AUTO
>(0018,601E)	UL	1	Region Location Max Y1	AUTO
>(0018,6024)	US	1	Physical Units X Direction	AUTO
>(0018,6026)	US	1	Physical Units Y	AUTO

Table 41

Multi-Frame Module Used for US Multi-Frame Images Only

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0028,0008)	IS	1	Number of Frames	AUTO
(0028,0009)	AT	1	Frame Increment Pointer	0018 1063 = Frame Time

Table 42

SC Equipment Module Used for Second Capture Images Only

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 A20
(0018,1016)	LO	3	Secondary Capture Device Manufacturer	MINDRAY
(0018,1018)	LO	3	Secondary Capture Device Manufacturer's Model Name	Resona A20
(0018,1019)	LO	3	Secondary Capture Device Software Version(s)	AUTO

Table 43

SC Image Module Used for

Table 44

Encapsulated Document Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0020,0013)	IS	1	Instance Number	AUTO
(0008,0023)	DA	2	Content Date	AUTO
(0008,0033)	TM	2	Content Time	AUTO
(0008,002A)	DT	2	Acquisition DateTime	AUTO
(0028,0301)	CS	1	Burned In Annotation	YES
(0042,0010)	ST	2	Document Title	The Title of the Document
(0040,A043)	SQ	2	Concept Name Code Sequence	Set to zero length
(0040,A493)	CS	3	Verification Flag	AUTO. UNVERIFIED = Not attested by a legally accountable person. VERIFIED = Attested to (signed) by a Verifying Observer or Legal Authenticator named in the document, who is accountable for its content.
(0042,0012)	LO	1	MIME Type of Encapsulated Document	
(0042,0011)	OB	1	Encapsulated Document	The PDF Document

Table 45

Acquisition Context Module

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

			DateTime	
(0018,9074)	DT	1C	>>Frame Acquisition DateTime	AUTO
(0018,9220)	FD	1C	>>Frame Acquisition Duration	AUTO
(0020,9157)	UL	1C	>>Dimension Index Values	AUTO
(0020,930E)	SQ	1	>Plane Position (Volume) Sequence	
(0020,9301)	FD	1	>>Image Position (Volume)	AUTO
(0020,9310)	SQ	1	>Temporal Position Sequence	
(0020,930D)	FD	1	>>Temporal Position Time Offset	AUTO
(0018,9807)	SQ	1	>Image Data Type Sequence	
(0018,9808)	CS	1	>>Data Type	AUTO PEÐOOQA EJPAJOEPU or BHKS RAHK?EPU
(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 47

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

(0028,0103)	US	1	Pixel Representation	0
(0020,9311)	CS	1	Dimension Organization Type	3D or 3D_TEMPORAL :
(0008,002A)	DT	1	Acquisition Datetime	AUTO
(0018,9073)	FD	1	Acquisition Duration	AUTO
(0028,0030)	DS	1	Pixel Spacing	AUTO
(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

4.2.1.3.3 Activity Request Storage Commitment

4.2.1.3.3.1 Description and Sequencing of Activities

A possible sequence of interactions between the Storage Commitment AE and a remote AE is illustrated in the Figure 3
Sequencing of Activity Send Storage Request.

4.2.1.3.3.2 Proposed Presentation Contexts

The Storage Commitment AE is capable of proposing the Presentation Contexts shown in the table below:

Table 49

Proposed Presentation Contexts for Activity Request Storage Commitment

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

The Storage Commitment AE will only accept the SCU role within a Presentation Context for the Storage Commitment Push Model SOP Class.

4.2.1.3.3.3 SOP Specific Conformance

4.2.1.3.3.3.1 Storage Commitment Operations (N-ACTION)

The Storage Commitment AE will request storage commitment for the configured device.

The behavior of Storage Commitment AE when receiving N-Action response status codes is summarized in the table below:

Table 50

Storage Commitment N-ACTION Response Status Handling Behavior

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The request for storage commitment is considered successfully sent. The ultrasound system waits for the N-EVENT-REPORT in background.
*	*	Any other status code.	The request for storage commitment is failed.

The behavior of Storage Commitment AE during communication failure is summarized in the table below:

Table 51

Storage Commitment Communication Failure Behavior

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

Storage Commitment AE will request storage commitment using the following tags

NOTE: Storage Commitment may only be automatically requested upon successful completion of an end exam storage task,TJETQ EMC /Span /MCID 15/L272aQ EMC /Span /MCID 15/Lang

2. N-GET on the Printer SOP Class is used to obtain current printer status information.
3. N-CREATE on the Film Session SOP Class creates a Film Session.
4. N-CREATE on the Film Box SOP Class creates a Film Box linked to the Film Session. A single Image Box will be created as the result of this operation (Print AE default uses the format STANDARD\1.1, but user can change it on Preset UI).
5. N-SET on the Image Box SOP Class transfers the contents of the film sheet to the printer.
6. N-ACTION on the Film Box SOP Class instructs the printer to print the Film Box.
7. The Printer prints the requested number of film sheets.
8. The Printer asynchronously reports its status via N-EVENT-REPORT notification (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.

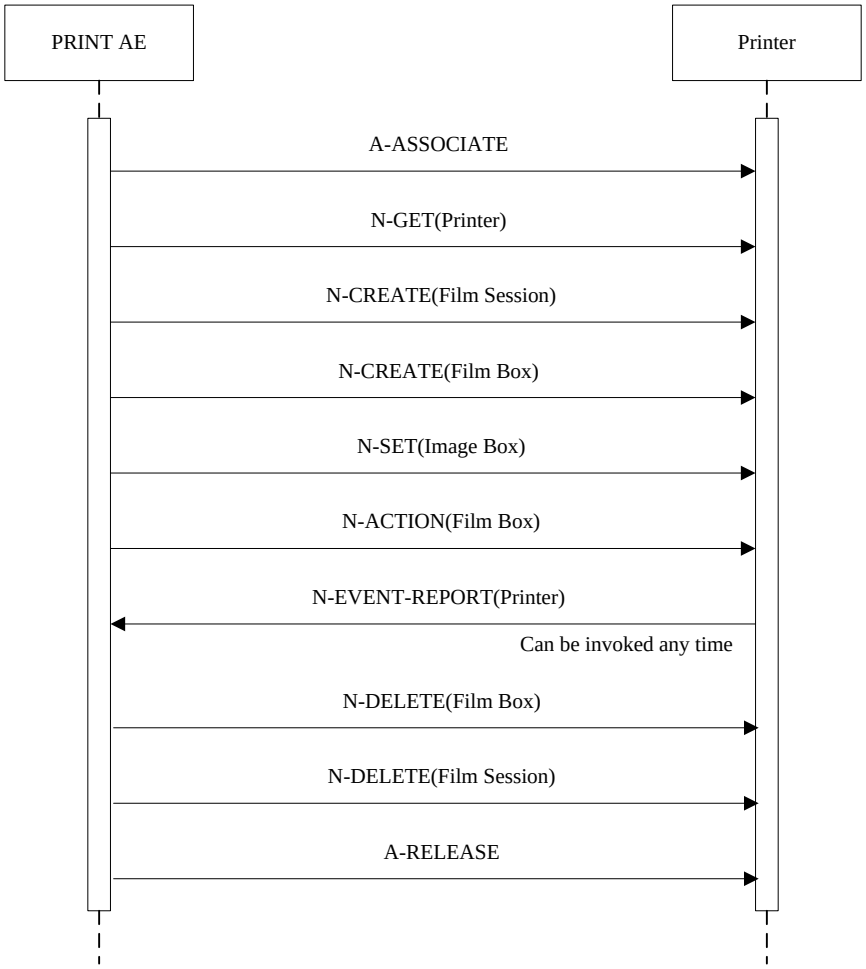

Figure 4
Sequencing of Activity Film Images

4.2.1.3.4.2 Proposed Presentation Contexts

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

Table 56
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
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None

4.2.1.3.4.3 Common SOP Specific Conformance for all Print SOP Classes

The general behavior of Print AE during communication failure is summarized in the Table below. This behavior is common for all SOP Classes supported by Print AE.

Table 57
Print AE Communication Failure Behavior

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

Recommended abbreviations to be used for the tables are:

VNAP Value Not Always Present (attribute sent zero length if no value is present)

ANAP Attribute Not Always Present

ALWAYS Always Present with a value

EMPTY Attribute is sent without a value

Recommended abbreviations to be used for the source of the data values in the tables are:

USER the attribute value source is from User input

AUTO the attribute value is generated automatically

CONFIG the attribute value source is a configurable parameter

PRINTER the attribute value is provided by printer

4.2.1.3.4.4 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.

4.2.1.3.4.4.1 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 58

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 59

Printer SOP Class N-GET Response Status Handling Behavior

4.2.1.3.4.5 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.

4.2.1.3.4.5.1 Film Session SOP Class Operations (N-CREATE)

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

Table 62
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 63
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.

4.2.1.3.4.5.2 Film Session SOP Class Operations

			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\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 SOP Instance	ALWAYS	AUTO
Film Orientation	(2010,0040)	CS	PORTRAIT or LANDSCAPE	ALWAYS	CONFIG
Film Size ID	(2010,0050)	CS	8INX10IN 8_5INX11IN 10INX12IN 10INX14IN 11INX14IN	ALWAYS	CONFIG

			11INX17IN 14INX14IN 14INX17IN 24CMX24CM 24CMX30CM A4 A3		

Magnification

Type

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

				MONOCHROME2	
>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

			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.

4.2.1.3.5 Activity Send Find Request

4.2.1.3.5.1 Description and Sequencing of Activities

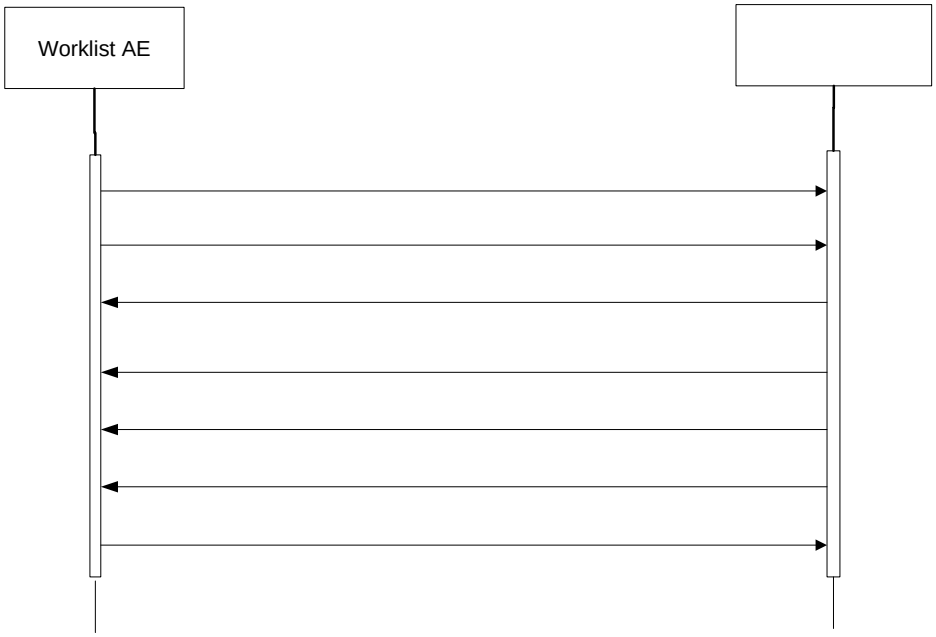

Figure 5

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.

4.2.1.3.5.2 Proposed Presentation Contexts

Table 71

Proposed Presentation Contexts for Worklist AE

Presentation Context Table					
Abstract Syntax		**Transfer Syntax**		**Role**	**Extended Negotiation**
Name	**UID**	**Name**	**UID**		
Modality Worklist Information Model Find	1.2.840.10008.5.1.4.31	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

Worklist AE will propose Presentation Contexts for the SOP Classes listed above. For these SOP Class, Worklist AE will propose multiple Presentation Contexts, one for each of the supported Transfer Syntaxes.

If Worklist AE is offered a choice of Transfer Syntaxes in the accepted Presentation Contexts, it will apply the first encountered to use for the C-FIND operation.

4.2.1.3.5.3 SOP Specific Conformance

Table 72

C_FIND

Pending	Matches are continuing - Warning that one or more Optional Keys were not supported for existence for this Identifier.	FF01	The worklist item contained in the Identifier is collected for later display or further 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 72 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 73

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 74

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)

			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)
> >(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)
>(0040,0009)	SH	Scheduled Procedure Step ID		X (DI)
>(0040,0010)	SH	Scheduled Station Name		X (DI)
>(0040,0011)	SH	Scheduled Procedure Step Location		X (DI)
>(0040,0012)	LO	Pre-Medication		X (DI)
> (0040,0020)	CS	Scheduled Procedure Step Status		X (DI)
> (0040,0400)	LT	Comments on the Scheduled Procedure		X (DI)

		Step		
Module: Requested Procedure Module (M)				
(0008,1110)	SQ	Referenced Study Sequence		X (DI)
> (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)

(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 keys. An " X " indicates that MODALITY supplies this attribute as a Return Key with zero length for Universal Matching.

DI Display to the user.

4.2.1.3.6 Activity Send MPPS Request

4.2.1.3.6.1 Description and Sequencing of Activities

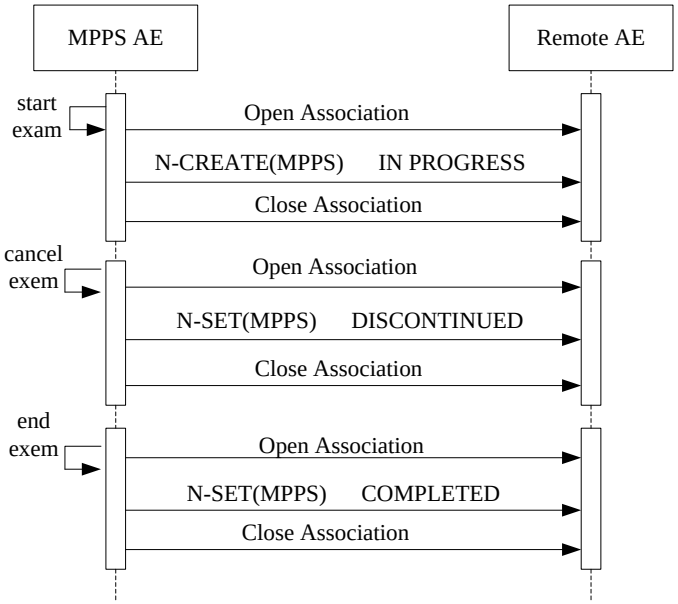

Figure 6

Sequencing of Activity MPPS progress

A possible sequence of interactions between the MPPS AE and a Remote AE(Departmental Scheduler, e.g. a device such as a RIS or HIS which supports the MPPS SOP Class as an SCP) is illustrated in Figure B.4.2-4:

1. The MPPS AE opens an association with the Remote AE.
2. The MPPS AE sends an N-CREATE request to the Remote AE to create an MPPS
   EJ LNKCNAOO * P
   Remote AE acknowledges the MPPS creation with an N-CREATE response (status success).
3. The MPPS AE closes the association with the Remote AE.
4. All images are acquired and stored in the local database.
5. The MPPS AE opens an association with the Remote AE.
6. The MPPS AE sends an N-SET request to the Remote AE to update the MPPS instance ?KI LHAPA@ *P

Departmental Scheduler acknowledges the MPPS update with an N-SET response (status success).

7. The MPPS AE closes the association with the Remote AE.

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..

4.2.1.3.6.2 Proposed Presentation Contexts

Table 75

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	1.2.840.10008.1.2.2	SCU	None

MPPS-SCU will propose Presentation Contexts for the SOP Classes listed above. For these SOP Class, MPPS-SCU will propose multiple Presentation Contexts, one for each of the supported Transfer Syntaxes.

If MPPS AE is offered a choice of Transfer Syntaxes in the accepted Presentation Contexts, it will apply the first encountered to use for the MPPS AE operation.

4.2.1.3.6.3 SOP Specific Conformance

MPPS AE provides Standard Conformance to the MPPS Service Class.

MPPS-SCU will behave as described in the Table below in response to the status returned in the N-Create or N-Set response command message.

Table 76

MPPS N-CREATE / N-SET Response Status Handling Behavior

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has completed the operation successfully.
Failure	Processing Failure Performed Procedure Step Object may no	0110	The Association is aborted using A-ABORT and the MPPS is marked as failed. The status meaning and Additional information in the Response is logged (i.e.

	longer be updated		Error Comment and Error ID).
Warning	Attribute Value Out of Range	0116H	The MPPS operation is considered successful but the status meaning is logged. Additional information in 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.

>Accession Number	(0008,0050)	2	Not allowed
>Referenced Study Sequence	(0008,1110)	2	Not allowed
>Study Instance UID	(0020,000D)	1	Not allowed
>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
>Opera	(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

4.2.1.3.7 Activity Query/Retrieve from Remote AE

4.2.1.3.7.1 Description and Sequencing of Activities for SCU

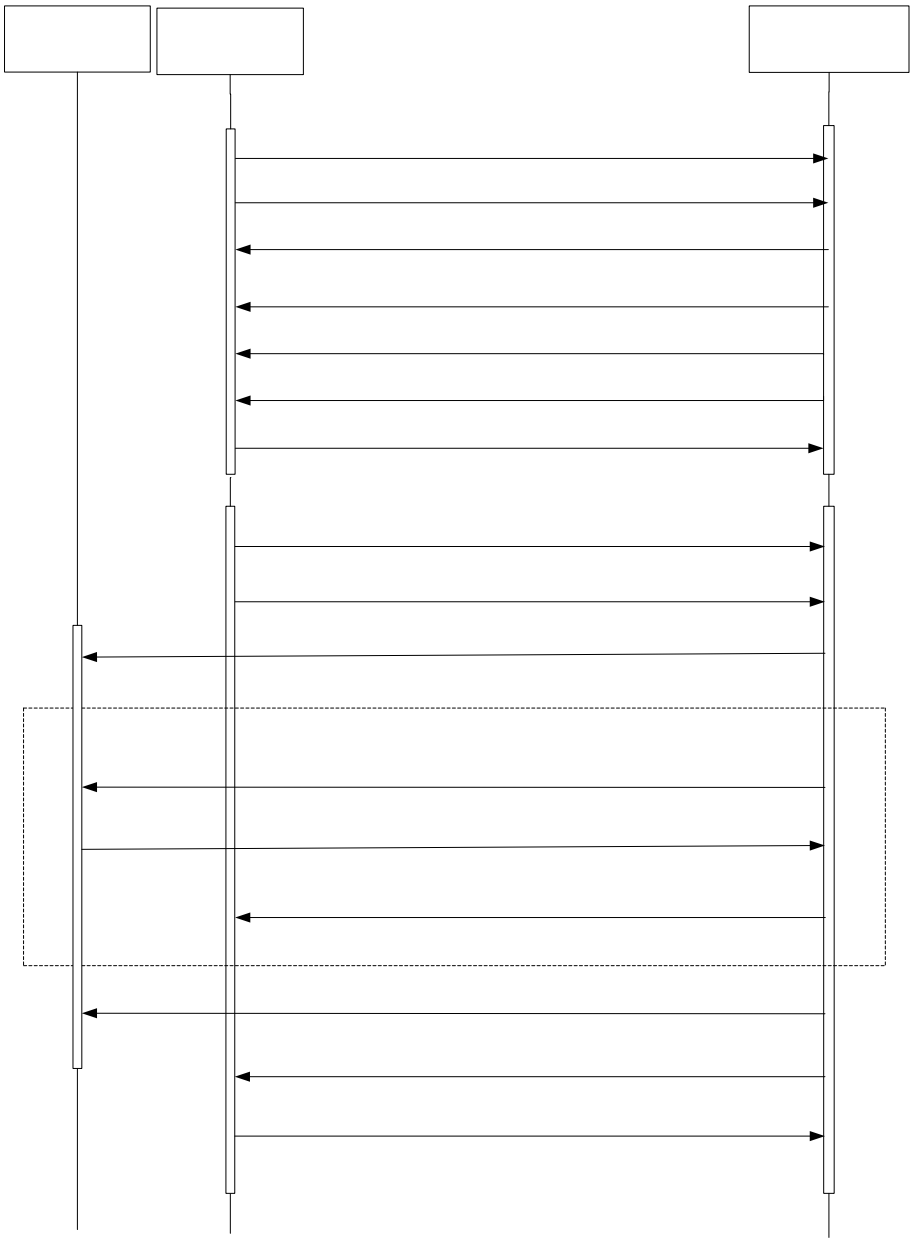

Figure 7

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.

4.2.1.3.7.2 Proposed Presentation Contexts

Table 79
Proposed Presentation Contexts for Query/Retrieve AE

Presentation Context Table					
Abstract Syntax		**Transfer Syntax**		**Role**	**Extended Negotiation**
Name	**UID**	**Name**	**UID**		
Study Root Query/Retrieve Information Model - Find	1.2.840.10008.5.1.4.1.2.2.1	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
Study Root Query/Retrieve Information Model - Move	1.2.840.10008.5.1.4.1.2.2.2	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

4.2.1.3.7.3 SOP Specific Conformance

The ultrasound system provides Standard Conformance to the DICOM Query/Retrieve Class.

4.2.1.3.7.3.1 Response Status

Query/Retrieve AE will behave as described in the Table below in response to the status returned in the C-Find response command message.

Table 80
C-Find 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	0000	None	Patient lists show on

	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 81

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	/

4.2.1.3.7.3.2 Study Root Query/Retrieve Attributes

4.2.1.3.7.3.3 Supported Matching

Following are the types of matching that can be request by the implementation:

- Single Value matching
- Universal Matching
-

D

(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

4.2.1.3.7.3.5 Series Level Attributes

Table 83

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

4.2.1.3.7.3.6 Composite Object Instance Level

Table 84

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		S
(0008,0018)	UI	U	SOP Instance UID		N
(0020,0013)	IS	R	Instance Number		N
Module: Additional Attributes Module (O)					
(0008,0016)	UI	O	SOP Class UID		N
(0008,001A)	UI	O			

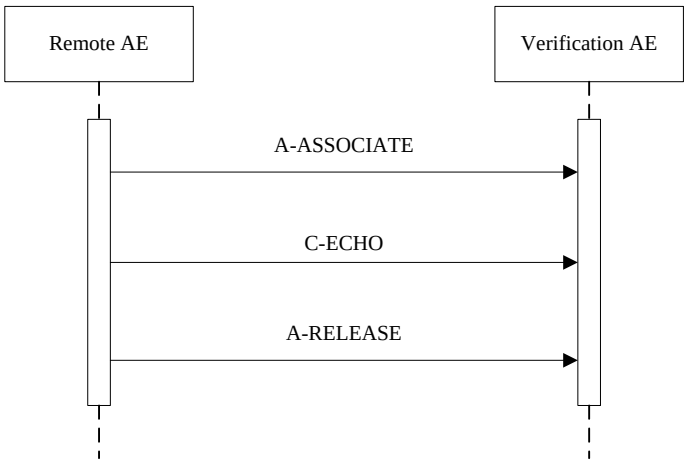

Figure 8
Sequencing of Activity Receive Echo Request

4.2.1.4.1.2 Accepted Presentation Contexts

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

Table 85
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

4.2.1.4.1.3 SOP Specific Conformance

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

4.2.1.4.2 Activity Receive Storage

4.2.1.4.2.1 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.

4.2.1.4.2.2 Accepted Presentation Contexts

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

Table 86
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
		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
Comprehensive Structured Report Storage	1.2.840.10008.5.1.4.1.1.88.33	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
Encapsulated PDF Storage	1.2.840.10008.5.1.4.1.1.104.1	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

4.3 Network Interface

4.3.1 Supported Communications Stacks

Modality DICOM AEs provide DICOM 3.0 TCP/IP Network Communication Support as

4.4.2 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. (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, 840*480, 1048*600 or 1400*768)
- Allow Multiframe(Enable or not)
- Max Framerate(options(25, 30, 35, full), or other inputed valid value)
- 3D/4D(Normal or Volume)
- SR Storage Option(Attach SR When Store Images， Only Store SR，and Not Store SR")
- Encapsulated PDF(Enable or not)
- Doppler Audio(None or MPEG2_MP@ML)
- Storage Mode(Parallel file or Parallel frame)
- Default Service Status (Y/N)
- Window Width,Window Center
- Measurement,SR Compatibility
- Strategy Name
- TransducerTracking
- TLS

Print:

- Device, Service name, AE Title and Port .
- Timeout.

- Maximum retries. (value is 3)
- Interval Time (In this version, this parameter is not usable.)
- Media Type: PAPER, CLEAR FILM, or BLUE FILM
- Film Size:
  - 8INX10IN
  - 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)
- Strategy Name
- TLS

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)
- Strategy Name
- TLS
- Remove Attributes

MPPS:

- Device, Service name, AE Title and Port.
- Timeout,
- Maximum retries (default value is 3)

5 Media Storage

5.1 Implementation Model

5.1.1 Application Data Flow

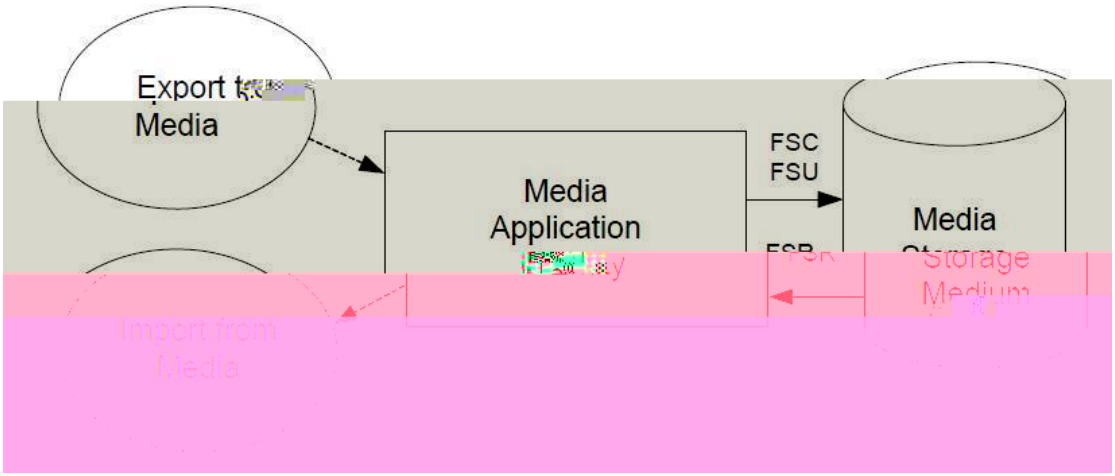

Figure 9

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-world activity Backup configured export selection parameters for selected + Structured Reports).

5.1.2

5.1.2.1 Functional Definition of Media Application Entity

Q A

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.

5.2.1.2.2 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

The system user selects exams from the s
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 for Table 89 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 90
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

5.3 Media Storage Application Profile

See Table 89 for supported Application Profiles.

5.3.1 DICOMDIR Attributes

The DICOMDIR file will contain the following attributes.

Table 91

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 92

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 93

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 94

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 95

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

The system charaset of all languages is unof Tf1 0 0 1.49 79TmQq3(Th).321

7 SECURITY

7.1 Security Profiles

Resona A20 series 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)	TLS_RSA_WITH_AES_128_CBC_SHA TLS_RSA_WITH_3DES_EDE_CBC_SHA

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, L J and Patient s Sex, they will be treated as the same in the browser and the local database.

8.1.3 Attribute Mapping

Not applicable.

8.1.4 Coerced/Modified fields

No coercion is performed.

8.2 Data Dictionary of private attributes

No private attributes are defined.

8.3 Coded terminology and templates

The value for Code Meaning will be displayed for all code sequences. No local lexicon is provided to look up alternative code meanings.

8.4 Grayscale Image Consistency

Modality does not support the Grayscale Standard Display Function.

8.5 Standard extended/specialized/private sop Classes

None.

8.6 Private Transfer Syntaxes

None.

A. Appendix : OB GYN structured reporting template

This appendix lists the DICOM Structured Report (SR) mappings used in the Obstetric and Gynecologic 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 OB-GYN Report mappings follow the DICOM SR Template TID 5000: OB-GYN Ultrasound Procedure Report, except where noted.

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

A.1. TID (300) Measurement

This Template provides a general structure for a numeric measurement, together with evaluations of its normality and/or significance, and the inference source(s) for its value.

NO	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			NUM	$Measurement			Units = $Units
2	>	HAS CONCEPT MOD	CODE	EV (G-C036, SRT, "Measurement Method")			$Method

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			CO7.07eW* n /:				

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

31	>	CONTAINS	INCLUDE	DTID (#MR_VAS)			
32	>	CONTAINS	INCLUDE	DTID (#vp_fetalecho)			

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

This is a private template referenced by TID (SELFTMP-1).

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 Diamet			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,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT,			EV (M99900,MRUS, Pelvic floor)
3	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-01, Depth
4	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-02,
5	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-03,
6	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-01, MRUS,
7	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-02, MRUS,
8	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-03, MRUS,
9	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-04, Wall Th
10	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-04, MRUS, Thickness

11	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-05, Neck Symphyseal
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,
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, esical Angle (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

27	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-19, MRUS, Rectal Ampulla - 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,

36	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-08, MRUS,
37	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-27, Hiatal Anteroposterior
38	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-28, Hiatus Anteroposterior Diameter (Valsava
39	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-29, tor Hiatus Anteroposterior Diameter
40	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-30, Hiatus Lateral
		CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-31, Hiatus Lateral Diameter (Valsava

43	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-33,
44	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-34, Hiatus Circumference
45	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-35, Levator Hiatus Area (Valsava
46	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-36, Hiatus Circumference (Valsava
47	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-37, Hiatus Area
48	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-38, Hiatus Circumference
49	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-39, Ani Thickness
50	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-40, Ani Thickness (Valsava

51	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M99901-41, Ani Thickness (Contractio
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, 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, 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, ethral
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

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) Measurement			$Measurement = EV (M99901-77, MRUS, ical Angle2 (Valsava
89	>	CONTAINS	[redacted]				$Measurement = EV (M99901-78, Tilt Angle2 (Valsava

90

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,
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

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,
111	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-12, MRUS,
112	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C99901-13, MRUS,
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,			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, "S			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, "Subject Se			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) OB-GYN Patient Characteristics

NO	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (121118, DCM,			
2	>	CONTAINS	TEXT	EV (121106, DCM,			
3	>	CONTAINS	NUM	EV (8302-2, LN,			
4	>	CONTAINS	NUM	EV (29463-7, LN,			
5	>	CONTAINS	NUM	EV (11996-6, LN,			from info
6	>	CONTAINS	NUM	EV (11977-6, LN,			from info
7	>	CONTAINS	NUM	EV (11612-9, LN,			from info

17	>	CONTAINS	TEXT	(I12101-03, MRUS, "CPT4 Code")		from info

36	>	CONTAINS	NUM	(I12101-17,MRUS,Assisted Vaginal Delivery)			from info
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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
9	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (11948-7, LN, " Fetal Heart Rate")
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 (5000).

	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-63000,S			
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 (5000).

	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 (5000).

	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")			
5	>	CONTAINS	TEXT	(T-44000,SNM3,Pulmonary Artery)			
6	>	CONTAINS	TEXT	(FG3010-02,MRUS,Ascending Aorta)			
7	>	CONTAINS	TEXT	(FG3010-01,MRUS,"ARCH")			
8	>	CONTAINS	TEXT	(FG3010-03,MRUS," Decrease ARCH ")			
9	>	CONTAINS	TEXT	(T-32650,SRT,Left Ventricular Outflow Tract)			
10	>	CONTAINS	TEXT	(T-32550,SRT,Right Ventricle Outflow Tract)			

A.14. TID (FINDING_4) Fetal Brain

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1		CONTAINS	CONTAINER	(FG4030-01,MRUS,"Fetal Brain")			
2	>	CONTAINS	TEXT	(FG4030-02,MRUS,"Lateral Ventricles")			
3	>	CONTAINS	TEXT	(11860-4,LN,"Cisterna Magna")			
4	>	CONTAINS	TEXT	(T-A600A,SNM3,"Cerebellum")			
5	>	CONTAINS	TEXT	(FG4030-03,MRUS,"CSP")			

A.15. TID (FINDING_5) Spine

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1		CONTAINS	CONTAINER	(T-11500,SRT,"Spine")			
2	>	CONTAINS	TEXT	(T-11501,SNM3,"Cervical Spine")			
3	>	CONTAINS	TEXT	(T-11502,SNM3,"Thoracic Spine")			
4	>	CONTAINS	TEXT	(T-11503,SNM3,"Lumbar Spine")			
5	>	CONTAINS	TEXT	(FG4031-08,MRUS,"Sacral Spine")			

A.16. TID (FINDING_6) Fetal Environment

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

	NL	Rel with Parent		VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1		CONTAINS		CONTAINER	(FG12019-03,MRUS,"Fetal Environment")			

	NL	Rel with Parent		VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
2	>	CONTAINS		TEXT	(FG12011-01,MRUS,"Placental Location")			
3	>	CONTAINS		TEXT	(FG12011-02,MRUS,"Amniotic Fluid")			
4	>	CONTAINS		TEXT	(FG12011-03,MRUS,"Placental Grade")			

A.17. TID (FINDING_7) Maternal Description

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1		CONTAINS	CONTAINER	(FG6088-01,MRUS,"Maternal Description")			
2	>	CONTAINS	CONTAINER	(FG12011-03,MRUS,"Adnexa")			
3	>>	CONTAINS	TEXT	(G-A100,SNM3,Right)			M.ADNEXA-R
4	>>	CONTAINS	TEXT	(G-A101,SNM3,Left)			M.ADNEXA-L
5	>	CONTAINS	CONTAINER	(T-87000,SRT,"Ovary")			
6	>>	CONTAINS	TEXT	(G-A100,SNM3,Right)			M.OVARY-R
7	>>	CONTAINS	TEXT	(G-A101,SNM3,Left)			M.OVARY-L
8	>	CONTAINS	CONTAINER	(T-71000,SRT,Kidney)			
9	>>	CONTAINS	TEXT	(G-A100,SNM3,Right)			M.KIDNEY-R
10	>>	CONTAINS	TEXT	(G-A101,SNM3,Left)			M.KIDNEY-L
11	>	CONTAINS	TEXT	(FG4031-01,MRUS,"LUS")			
12	>	CONTAINS	TEXT	(T-83200,SRT,Cervix)			

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,			

3	>	HAS OBS CONTEXT	NUM	EV (11878-6,LN, "Number of			

A.23. TID (5008_LR) Biometry Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT(125005,			
2		HAS CONCEPT MOD					

		Parent			MODALITY		Constraint
1			CONTAINER	DT(T-			
3	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = 12005_4

A.26. 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.27. 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.28. TID (5011) Early Gestation Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (125009,			
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.29. TID (5011_1) Early Gestation Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (125009,			
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_LR) Fetal Biometry Group			$BiometryType= Member of {DCID (12009_1) Early Gestation Biometry Measurements}
	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (12008_2)

A.30. 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-
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-
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

18	>>	CONTAINS	INCLUDE	DTID	(300)
				Measurement	

5	>	CONTAINS	INCLUDE	DTID (5014) Follicle Measurement Group			

A.32. TID (5013_1) Smart Follicles 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-87600_1, SRT, Smart
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,			$Laterality
4	>	CONTAINS	NUM	EV (11879-4, of smart follicles OR EV (11880-2, of smart follicles Number of smart follicles in the ovary.			
5	>	CONTAINS	INCLUDE	DTID (5014) Follicle Measurement Group			

A.33. TID (5014) Follicle Measurement Group

	NL	Relation	Value Type	Concept Name	Used in	Condition	Value Set Constraint

		with Parent			MODALITY		
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, SRT,
4	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M11793-01, MRUS, d1
5	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M11793-02, LN, d2
6	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (M11794-03, MRUS, d3
7	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV (C11793-01, MRUS, Mean Follicle Diameter

4	>>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = $Length $Length = EV (11842-2,
5	>>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = $Height $Height = EV (11859-6,
6	>>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = $Volume $Volume = EV (33192-6,
7	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV(LN,11961-0,Cervix Length)
8	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = EV(LN,12145-9,Endometrium Thickness)
9	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (MRUS,M12011-01,Cervix Height)
10	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (MRUS,M12011-02,Cervix Width)
11	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (MRUS,C12011-03,Uterus Body)
12	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (MRUS,C12011-04,UT_L/CX_L)
13	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (MRUS,M12011-03,Matrix Kindney Length)
14	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (M12011-04,MRUS,Fibroid1 Length)
15	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (M12011-05,MRUS,Fibroid1 Width)
16	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement = (M12011-06,MRUS,Fibroid1 Height)

17	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement (M12011-07,	=	

A.40. TID (ZSCORE) OB-GYN Fetus Vascular Ultrasound Measurement Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1	>	CONTAINS	INCLUDE	$Measurement = $BiometryType			

A.41. TID(aortic_arch) OB-GYN Fetus Vascular Ultrasound Measurement Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070, DCM,			

A.43. TID(Venous) OB-GYN Fetus Vascular Ultrasound Measurement Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070,			
2	>	HAS CONCEPT MOD	CODE	[redacted]			99905-1,GEK,Venous
3	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement=00001_10

A.44. TID(4Ch-view) OB-GYN Fetus Vascular Ultrasound Measurement Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			[redacted]	DT (121070, DCM,			

2	>	HAS CONCEPT MOD	CODE	EV (G-C036, SRT,Measurement Method)			99921-13,GEK,Chambers
3	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement=00001_12

A.46. TID(Ch-view-M) OB-GYN Fetus Vascular Ultrasound Measurement Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C036, SRT,Measurement Method)			99922-9,GEK,Chambers M-Mode
3	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement=00001_17

A.47. TID(thorax) OB-GYN Fetus Vascular Ultrasound Measurement Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C036, SRT,Measurement Method)			99902-1,GEK,Thorax
3	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement=00001_14

A.48. TID(subvp) OB-GYN Fetus Vascular Ultrasound Measurement Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (99100,99VP,Doppler Group)			
2	>	CONTAINS	INCLUDE	DTID (300VAS)			$Prefix=$AnatomyGroup;$Laterality=$Laterality;$Modifier=$Modifier;

A.49. TID(subvp2) OB-GYN Fetus Vascular Ultrasound Measurement Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C036, SRT,Measurement Method)			$AnatomyGroup
3	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement =lvot

A.50. TID(subvp3) OB-GYN Fetus Vascular Ultrasound Measurement Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C036, SRT,Measurement Method)			$AnatomyGroup

3	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement =lvot

A.51. TID(Pulmonary_valve) OB-GYN Fetus Vascular Ultrasound Measurement Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, "Finding Site")			99913-1,GEK,Pulmonary Valve
3	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement=00001_15

A.52. TID(left_tei) OB-GYN Fetus Vascular Ultrasound Measurement Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, "Finding Site")			$AnatomyGroup
3	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement= 00003

A.53. TID(right_tei) OB-G

Measurement Group

	NL	Relation with Parent	Value Type	Concept N
1			CONTAINER	DT (
2	>	HAS CONCEPT MOD	CODE	EV ((SRT, " Site")
3	>	CONTAINS	INCLUDE	DTID Measurem

A.54. TID(kindney) URO Ult

	NL	Relation with Parent	Value Type
1			CONTAIN ER
2	>	HAS CONCEPT MOD	CODE
3	>	CONTAINS	INCLUDE
4	>	CONTAINS	INCLUDE
5	>	CONTAINS	INCLUDE

A.55. TID(#vp_fetalecho) O

NL

14	>	CONTAINS	INCLUDE	DTID (left_tei)			
15	>	CONTAINS	INCLUDE	DTID (right_tei)			

A.56. TID(rct) URO Ultrasound Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (121070, DCM, "Findings")			
2	>	HAS CONCEPT MOD	CODE	EV (G-A1F8, SRT, "Topographical Modifier")			$Modifier
3	>	CONTAINS	INCLUDE	DTID (300k) Measurement			"$Measurement = ""MT-71000-04,MRUS,Renal Cortical Thickness"";$Laterality=$Laterality";$Modifier=$Modifier

A.57. TID(#MR_VAS) OB-GYN Ultrasound Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1	>	CONTAINS	INCLUDE	DTID (SELFTMP-2) Measurement			NUM.FETUS
2	>	CONTAINS	INCLUDE	DTID (SELFTMP-2No Fetus) Measurement			
3			CONTAIN	EV (121070,			NUM.FETUS

			ER	DCM, "Findings")			
4	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,			"T-D6007, SRT, ""Pelvic Vascular Structure"
5	>	CONTAINS	INCLUDE	DTID (5026) Measurement			$AnatomyGroup = 12140_0
6	>	CONTAINS	INCLUDE	DTID (5026VAS) Measurement			$AnatomyGroup = T-46820,SRT,Uterine Artery;$Laterality=244;$AnatomyGroupText=Uterine Artery
7	>	CONTAINS	INCLUDE	DTID (SELFTMP-4) Measurement			
8	>	CONTAINS	INCLUDE	DTID (OvarianA) Measurement			$Laterality=244
9	>	CONTAINS	INCLUDE	DTID (Cervical_Carcinoma) Measurement	$ETQ EM		

				"Findings")			
2	>	HAS OBS CONTEXT	INCLUDE	DTID (1008) Measurement			IF this template is invoked more than once to describe more than one fetus
3	>	CONTAINS	INCLUDE	DTID (subvp) Measurement			$AnatomyGroup =T-45600,SRT,Middle Cerebral Artery;$Laterality=244
4	>	CONTAINS	INCLUDE	DTID (subvp) Measurement			AnatomyGroup =T-45010,SRT,Carotid Artery;$Laterality=244
5	>	CONTAINS	INCLUDE	DTID (subvp) Measurement			AnatomyGroup =V12141-01,MRUS,Ductus Venosus
6	>	CONTAINS	INCLUDE	DTID (subvp) Measurement			$AnatomyGroup =T-F6845,SRT,Ductus Arteriosus
7	>	CONTAINS	INCLUDE	DTID (subvp) Measurement			$AnatomyGroup =T-46400,SRT,Celiac Artery
8	>	CONTAINS	INCLUDE	DTID (subvp) Measurement			$AnatomyGroup =T-42000,SRT,Aorta
9	>	CONTAINS	INCLUDE	DTID (subvp) Measurement			$AnatomyGroup =T-F1820,SRT,Umbilical Vein
10	>	CONTAINS	INCLUDE	DTID (subvp) Measurement			$AnatomyGroup =T-48710,SRT,Inferior Vena Cava
11	>	CONTAINS	INCLUDE	DTID (subvp) Measurement			

1			CONTAINER	EV (121070, DCM, "Findings")			
2	>	CONTAINS	INCLUDE	DTID (subvp) Measurement			$AnatomyGroup =T-46820,SRT,Uterine Artery; $Laterality=244
3	>	CONTAINS	INCLUDE	DTID (subvp) Measurement			$AnatomyGroup =T-F1810,SRT,Umbilical Artery;$Laterality=244
4	>	CONTAINS	INCLUDE	DTID (subvp) Measurement			AnatomyGroup =T-46980,SRT,Ovarian Artery;$Laterality=244; $Modifier=12116_0

A.61. TID(gyn_finding_group) OB-GYN Ultrasound Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (121070, DCM, "Findings")			
2	>	CONTAINS	INCLUDE	DTID (gyn_finding) Measurement			$AnatomyGroup=ovarian_finding;$Laterality=G-A101, SRT,Left
3	>	CONTAINS	INCLUDE	DTID (gyn_finding) Measurement			$AnatomyGroup=ovarian_finding;$Laterality=G-A100, SRT,Right
4	>	CONTAINS	INCLUDE	DTID (gyn_finding) Measurement			$AnatomyGroup=uterine_finding

A.62. TID(gyn_finding) OB-GYN Ultrasound Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (125007, DCM, Measurement Group)			
2	>	HAS CONCEPT	CODE	EV (G-C0E3,			$AnatomyGroup

A.66. TID (elas_group_cs) Shear Wave Elastography Measurement

This is a private template referenced by TID(5402)

N	Rel	with
L		

A.70. TID (elas_group_disp) Shear Wave Elastography Measurement

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

CSD **CV**

CSD	CV	Code Meaning
MRUS	M12240-04	Left Ventricular Length
MRUS	M12204-10	Right Ventricular Width
MRUS	M12204-11	Right Ventricular Length
MRUS	M12205-03	Left Atrium Width
MRUS	M12206-03	Right Atrium Width
MRUS	M12240-05	Left Ventricular Wall at end diastole
MRUS	M12240-06	Left Ventricular Wall at end systole
MRUS	M12204-12	Right Ventricular Wall at end diastole
MRUS	M12204-13	Right Ventricular Wall at end systole
MRUS	M12240-13	Aortic Valve Area
MRUS	M12240-14	Pulmonic Valve Area
SRT	T-35410	Aortic Valve Ring
MRUS	M12204-19	Aortic Valve Area
LN	79965-0	Aortic valve VTI
MRUS	T-35200-2	Pulmonic Valve Area
MRUS	T-F6845-1	Ductus arteriosus Vmax
MRUS	T-F6845-2	Ductus arteriosus Time to Peak
MRUS	T-F6845-3	Ductus arteriosus VTI
MRUS	T-35400-1	AVE
MRUS	T-35300-2	Mitral annular plane systolic excusion
LN	77903-3	Tricuspid annular plane systolic excusion
MRUS	T-35300-3	Mitral Valve E-Wave Peak Velocity(TDI)
MRUS	T-35300-4	Mitral Valve A-Wave Peak Velocity(TDI)
MRUS	T-35300-5	Mitral Valve S-Wave Peak Velocity(TDI)
MRUS	T-35100-2	Tricuspid Valve E Wave Peak Velocity(TDI)
MRUS	T-35100-3	Tricuspid Valve A Wave Peak

CSD	CV	Code Meaning
		Velocity(TDI)
MRUS	T-35100-4	Tricuspid Valve S Wave Peak Velocity(TDI)
SRT	G-037E	Left Ventricular Isovolumic Contraction Time
LN	18071-1	Left Ventricular Isovolumic Relaxation Time
MRUS	M12240-07	Left Ventricular Ejection Time
MRUS	M12204-14	Right Ventricular Isovolumic Contraction Time
MRUS	M12204-15	Right Ventricular Isovolumic Relaxation Time
MRUS	M12204-16	Right Ventricular Ejection Time
MRUS	M12240-08	Left Ventricular EDV
MRUS	M12204-17	Right Ventricular EDV
MRUS	T-35300-6	Mitral valve E-to-E' ratio
MRUS	CT-35100-2	Tricuspid Valve E-to-E' ratio
MRUS	T-F6845-2-1	Ductus arteriosus Time to Peak

A.75. CID(00001_3) OB-GYN Measurements

CSD	CV	Code Meaning
MRUS	T-35410-1	Aortic Valve Time to Peak
MRUS	T-35410-2	Aortic Valve Time to Peak
LN	79964-3	Aortic valve Vmax
LN	79965-0	Aortic valve VTI

A.76. CID(00001_8) OB-GYN Measurements

CSD	CV	Code Meaning
MRUS	M18020-8	Main Pulmonary Artery Diameter(Z Score)
GEK	99903-3	Pulmonary Valve Width
MRUS	M12212-1	Duct Aorta Diameter(Z Score)
LN	18019-0	Left Pulmonary Artery Diameter
LN	18021-6	Right Pulmonary Artery Diameter
MRUS	C12212-01	Aorta Diameter/Main Pulmonary

CSD	CV	Code Meaning
		Artery Diameter
LN	18015-8	Aortic Root Diameter
LN	18020-8	Main Pulmonary Artery Diameter
SRT	T-35410	Aortic Valve Ring

A.77. CID(00001_9) OB-GYN Measurements

CSD	CV	Code Meaning
LN	18012-5	Ascending Aortic Diameter
LN	18013-3	Descending Aortic Diameter
LN	18011-7	Aortic Arch Diameter
MRUS	M18015-9	Aortic Value Diameter(Z Score)

A.78. CID(00001_13) Echo Measurement

CSD	CV	Code Meaning
LN	18014-1	Aortic Isthmus Diameter

A.79. 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)
MRUS	M12204-04	Right ventricular area
MRUS	M12206-01	Right Atrium Diameter
MRUS	M12204-05	Right Ventricular Outflow Tract Diameter
MRUS	M12205-01	Left Atrium Diameter
MRUS	M12205-02	Left Atrium area
MRUS	M12206-02	Right Atrium area
MRUS	M12240-01	Left ventricular area
MRUS	M12240-02	Left ventricular area(Z Score)
MRUS	M12209-1	Pulmonary Valve Diameter(Z Score)
MRUS	M12215-1	Inferior Vene Cava Diameter(Z Score)
MRUS	M12212-1	Duct Aorta Diameter(Z Score)
MRUS	M12208-1	Tricuspid Valve Diameter(Z Score)
MRUS	M12207-1	Mitral Valve Diameter(Z Score)

A.80. CID (228) Equation or Table

CSD	**CV**	**Code Meaning**
DCM	121420	Equation
DCM	121421	Equation Citation
DCM	121424	Table of Values
DCM	121422	Table of Values Citation
DCM	121423	Method Citation

A.81. CID (244) Laterality

CSD	CV	Code Meaning
SRT	G-A100	Right
SRT	G-A101	Left
SRT	G-A102	Right and left
SRT	G-A103	Unilateral

A.82. CID (3627) Measurement Type

CSD	CV	Code Meaning
SRT	R-002E1	Best value
SRT	R-00317	Mean
SRT	R-00319	Median
SRT	R-0032E	Mode
SRT	R-00355	Point source measurement
SRT	R-00353	Peak to peak
SRT	R-41D27	Visual estimation
SRT	R-10260	Estimated
SRT	R-41D2D	Calculated
SRT	R-41D41	Measured

A.83. CID (12005) Fetal Biometry Measurements

CSD	CV	Code Meaning
LN	11979-2	Abdominal Circumference
LN	11818-2	Anterior-Posterior Abdominal Diameter
LN	11819-0	Anterior-Posterior Trunk Diameter
LN	11820-8	Biparietal Diameter
LN	11860-4	Cisterna Magna
LN	11963-6	Femur Length
LN	11965-1	Foot length
LN	11984-2	Head Circumference
LN	11851-3	Occipital-Frontal Diameter
LN	11988-3	Thoracic Circumference
LN	33068-8	Thoracic Area

CSD	CV	Code Meaning
LN	11862-0	Tranverse Abdominal Diameter
LN	11863-8	Trans Cerebellar Diameter
LN	11864-6	Transverse Thoracic Diameter
LN	33191-8	APAD * TAD

CSD	CV	Code Meaning
MRUS	M12240-21	HrtD.TD
MRUS	M12240-22	TA
MRUS	M12240-23	HrtA.TA
MRUS	M12240-25	HrtD
MRUS	M12240-13	Mitral Ventricular CO Dur
MRUS	M12240-14	Tricuspid Ventricular CO Dur
MRUS	M12240-15	Left Ventricular Tei Index
MRUS	M12240-16	Right Ventricular Tei Index
MRUS	M12240-17	Left Ventricular Tei Index-Doppler
MRUS	M12240-18	Right Ventricular Tei Index-Doppler
MRUS	M33068-9	Thoracic Diameter
LN	11862-0	Transverse Abdominal Diameter

A.84. 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.85. 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

CSD	CV	Code Meaning
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-	

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

CSD	CV	Code Meaning
LN	33088-6	Clavical length,Yarkoni 1985
LN	33091-0	CRL, Daya 1993
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

CSD	CV	Code Meaning
MRUS	F12013-10	FL, Chitty 1997
MRUS	F12013-11	FL, Merz 1991
MRUS	F12013-12	FL, Tokyo 1989
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	F12013-49	FL,China 1997
MRUS	F12013-50	FL,Nicolaides 1994
MRUS	F12013-51	FL,Osaka 1989
MRUS	F12013-52	AC,Hansmann1986
MRUS	F12013-53	AC,CFEF Crequat2000
MRUS	F12013-54	AC,Chit3 208. 208.46 161.18 18.624 reCAC,Chi

CSD	CV	Code Meaning
MRUS	F12013-57	BPD, CFEF Crequat 2000
MRUS	F12013-58	FL, CFEF Crequat 2000
MRUS	F12013-59	HC, CFEF Crequat 2000
MRUS	F12013-60	TAD, CFEF Crequat 2000
LN	11926-3	Foot Length by GA Mercer 1987
MRUS	F12013-61	CRL Verburg 2008
MRUS	F12013-62	BPD Verburg 2008
MRUS	F12013-63	MAD,eSnurra 2008
MRUS	F12013-63	BPD, LeungTN(O-I)
MRUS	F12013-65	HC, LeungTN
MRUS	F12013-64	BPD, LeungTN(O-O)

A.89. 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

CSD	CV	Code Meaning
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	F12014-03	EFW by BPD, TTD, Hansmann 1995
MRUS	F12014-04	EFW by BPD, FTA, FL, Osaka 1983
MRUS	F12014-05	EFW by AC,HC,FL,Schild 2004
MRUS	F12014-06	EFW by BPD,FL,MAD,Persson 1996
MRUS	F12014-08	EFW CFEF 2014
LN	11738-2	EFW by AC ,BPD, Hadlock 1984

A.90. CID (12015) Fetal Growth Equations and Tables

CSD	CV	Code Meaning
LN	33146-2	AC by GA, Hadlock 1984
LN	33147-0	AC(measured) by GA, Chitty 1994
LN	33546-3	AC (derived) by GA, Chitty 1994
LN	33198-3	BPD by GA, Hadlock 1984
LN	33152-0	outer-outer by GA, Chitty 1994
LN	33155-3	BPD by GA, Rempen 1991
LN	33160-3	CRL by GA, Rempen1991
LN	33166-0	FL by GA, Hadlock 1984
LN	33167-8	FL by GA, Chitty 1994
LN	33171-0	GS by GA, Rempen 1991
LN	33173-6	HC by GA, Hadlock 1984
LN	33174-4	HC derived by GA, Chitty 1994
LN	33181-9	TCD by GA Goldstein 1987
LN	33097-7	Fibula, Jeanty 1983
LN	33126-4	Radius, Jeanty 1983
MRUS	F12015-01	AC by GA, ASUM 2001
MRUS	F12015-02	AC by GA, Merz 1991
MRUS	F12015-03	AC, Jeanty 1984
MRUS	F12015-04	APAD,Merz 1991
MRUS	F12015-05	BPD by GA, ASUM 2001

CSD	CV	Code Meaning
MRUS	F12015-06	BPD, Hansmann 1985
MRUS	F12015-07	BPD by GA, Merz 1988
MRUS	F12015-08	BPD,Kurtz,1980
MRUS	F12015-09	BPD,Sabbagha 1978
MRUS	F12015-10	BPD, Tokyo 1989
MRUS	F12015-12	Clavical length,Yarkoni 1985
MRUS	F12015-13	CRL by GA ASUM 2001
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	F12015-18	FL by GA, ASUM 2001
MRUS	F12015-19	FL, Hansmann 1995
MRUS	F12015-20	FL by GA, Merz 1991
MRUS	F12015-21	FL, O'Brien,1981
MRUS	F12015-22	FL, Osaka 1989
MRUS	F12015-23	FL, Tokyo, 1989
MRUS	F12015-24	FL,Warda,1985
MRUS	F12015-25	FIB,Merz,1991
MRUS	F12015-26	FTA, Osaka 1989
MRUS	F12015-27	HC by GA, ASUM 2001
MRUS	F12015-28	HC, Hansmann 1985
MRUS	F12015-29	HC by GA, Merz 1991
MRUS	F12015-30	Humerus Length by GA, ASUM 2001
MRUS	F12015-31	OFD by GA, ASUM 2001
MRUS	F12015-32	OFD, Hansmann 1985
MRUS	F12015-33	OFD,Merz 1991
MRUS	F12015-34	OFD,Nicolaides 1994
MRUS	F12015-35	RAD,Merz 1991
MRUS	F12015-36	TAD,Merz 1991
MRUS	F12015-37	TCD,Hill 1990
MRUS	F12015-38	THD, Hansmann 1985
MRUS	F12015-39	Tibia,Merz 1991
MRUS	F12015-40	Ulna,Merz 1991

CSD	CV	Code Meaning
MRUS	F12015-41	EFW by GA, Hansmann 1995
MRUS	F12015-42	FL, Jeanty 1984
MRUS	F12015-43	HC, Jeanty 1984
MRUS	F12015-44	OFD, Jeanty 1984
MRUS	F12015-45	HUM, Jeanty 1984
MRUS	F12015-46	ULNA, Jeanty 1984
MRUS	F12015-47	TIBIA, Jeanty 1984
MRUS	F12015-48	BPD, CFEF Crequat 2000
MRUS	F12015-49	HC, CFEF Crequat 2000
MRUS	F12015-50	FL, CFEF Crequat 2000
MRUS	F12015-51	TAD, CFEF Crequat 2000
MRUS	F12015-52	OOD, Jeanty 1984
MRUS	F12015-53	AC, CFEF Crequat 2000
MRUS	F12012-54	AC,Nicolaides 1994
MRUS	F12012-55	HC,Nicolaides 1994
MRUS	F12015-67	IT CHINA 2012
MRUS	F12015-68	IT Saulo 2016
MRUS	F12015-69	NBL Bunduki V 2003
MRUS	F12015-70	NBL Sonek JD 2003
MRUS	F12015-71	AC Verburg 2008
MRUS	F12015-72	BPD Verburg 2008
MRUS	F12015-73	FL Verburg 2008
MRUS	F12015-74	HC Verburg 2008
MRUS	F12015-75	TCD Verburg 2008
MRUS	F12015-76	AC,CFEF Crequat 2006
MRUS	F12015-77	AC c ,CFEF Crequat 2006
MRUS	F12015-78	BPD,CFEF Crequat 2006
MRUS	F12015-79	FL,CFEF Crequat 2006
MRUS	F12015-80	HC,CFEF Crequat 2006
MRUS	F12015-81	HC c ,CFEF Crequat 2006
MRUS	F12015-82	EFW CFEF 2014

A.91. CID (12119) Vascular Ultrasound Property

CSD	CV	Code Meaning

CSD	CV	Code Meaning
SRT	G-0364	Vessel lumen diameter
MRUS	M12119-18	Residual Diameter
SRT	G-0366	Vessel lumen cross-sectional area

CSD	CV	Code Meaning
LN	20217-6	Deceleration Time
LN	20247-3	Peak Gradient
LN	20256-4	Mean Gradient
MRUS	M12119-01	Mean Velocity Mean Pressure Gradient
LN	20354-7	Velocity Time Integral
LN	8867-4	Heart rate
LN	11948-7	Fetal Heart Rate
MRUS	M12119-02	Angle
SRT	R-1025C	Vessel Intimal Diameter
MRUS	M12119-05	Artery Systolic Pressure
MRUS	M12119-06	Vol Flow(TAMAX&VAS_AREA)
MRUS	M12119544 18.6 reW*	

CSD	CV	Code Meaning

LN	11726-7	PV
MRUS	M12119-04	D.S
LN	20167-3	D.S
MRUS	M12119-28	VolFlow
MRUS	M12119-29	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	M12119-21	Pre.Sten
MRUS	M12119-22	Sten
MRUS	M12119-23	Post.Sten
MRUS	C12119-3	RAR
MRUS	C12119-4	RAR
SRT	G-A220	W
DCM	121207	H
SRT	G-D705	Vol
SRT	G-D785	Depth
MRUS	M12119-17	Diam
LN	33868-1	ICA.CCAPS
MRUS	M12105-01	ICA.PS
MRUS	M12105-02	CCA.PS
SRT	G-A437	Max
SRT	R-404FB	Min
SRT	R-00317	Mean
DCM	113061	Std

MRUS	M12119-31	ROI.Length
MRUS	M12119-32	

MRUS	M12119-08	pseudoaneurysm Height
MRUS	M12119-07	pseudoaneurysm Lengh
MRUS	M12119-28	Splenic V Diam
MRUS	M12119-29	Splenic A Diam
MRUS	C12119-1	Aorta Sten D
MRUS	C12119-2	Aorta Sten A
MRUS	M12119-30	Aneurysm Length
MRUS	M12119-31	Aneurysm Hight
MRUS	M12119-32	Aneurysm Width
LN	18037-2	Mitral Valve E-

MRUS	T-35100-4	Tricuspid Valve S Wave Peak Velocity TDI
SRT	G-037E	Left Ventricular Isovolumic Contraction Time
LN	18071-1	Left Ventricular Isovolumic Relaxation Time
MRUS	M12240-07	Left Ventricular Ejection Time
MRUS	M12204-14	Right Ventricular Isovolumic Contraction Time
MRUS	M12204-15	Right Ventricular Isovolumic Relaxation Time
MRUS	M12204-16	Right Ventricular Ejection Time
MRUS	M12240-08	Left Ventricular EDV
MRUS	M12204-17	Right Ventricular EDV
LN	18038-0	Mitral valve E-to-A ratio
MRUS	CT-35100-1	Tricuspid Valve E-to-A ratio

SRT	T-46980	Ovarian Artery
SRT	T-46820	Uterine Artery

A.96. CID (12141) Fetal Vasculature Anatomical Location

CSD	CV	Code Meaning
SRT	T-42000	Aorta
SRT	T-D0765	Descending Aorta
SRT	T-42100	Ascending Aorta

SRT

MRUS	M31365801	Vmax.at.Orifice
MRUS	M31365201	AV.Vmax
MRUS	M31365301	MV.Vmax

A.97. CID(12205) Echo Measurement

CSD	CV	Code Meaning
LN	29469-4	Left Atrium Antero-posterior Systolic Dimension
LN	17985-3	Left Atrium to Aortic Root Ratio
LN	29486-8	Left Atrial Appendage Peak Velocity
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	C12205-01	Aortic Root to Left Atrium Ratio
MRUS	C12205-02	Left atrium Volume index
MRUS	M12205-03	LA LL Diam

A.98. CID(12211) Echo Measurement

CSD	CV	Code Meaning
LN	17996-0	Aortic Valve Cusp Separation
LN	18041-4	Aortic Valve Ejection Time
SRT	G-0382	Ratio of Aortic Valve Acceleration Time to Ejection Time

A.99. CID(12212) Echo Measurement

CSD	CV	Code Meaning
LN	18015-8	Aortic Root Diameter
LN	18012-5	Ascending Aortic Diameter
LN	18014-1	Aortic Isthmus Diameter
LN	18013-3	Descending Aortic Diameter
LN	17995-2	Thoracic Aorta Coarctation Systolic Peak Instantaneous Gradient

CSD	CV	Code Meaning
LN	29460-3	Thoracic Aorta Coarctation Systolic Peak Velocity
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
MRUS	M12212-07	Ao Arch IA-LCA
MRUS	M12212-08	Ao Arch LCA-LSA
MRUS	M12212-09	Ao Arch After LSA
MRUS	M12212-10	Thoracic Ao Diam

A.100.CID (12220) Echo Measurement

CSD	CV	Code Meaning
MRUS	C12215-07	Collapsible index of inferior vena cava
MRUS	C12215-08	Distensibility index of inferior vena cava
MRUS	C12215-09	Variability index of inferior vena cava
MRUS	T-87000-33	Inferior Vena Cava Diameter Max
MRUS	T-87000-34	Inferior Vena Cava Diameter Min
MRUS	T-87000-35	Inferior Vena Cava Diameter Max Depth
MRUS	T-87000-36	Inferior Vena Cava Diameter Min Depth
MRUS	T-87000-38	Superior Vena Cava Diameter Max
MRUS	T-87000-39	Superior Vena Cava Diameter Min
MRUS	T-87000-40	Superior Vena Cava Diameter Max Depth
MRUS	T-87000-41	Superior Vena Cava Diameter Min Depth
LN	18006-7	Inferior Vena Cava Diameter
LN	18050-5	Inferior Vena Cava % Collapse
MRUS	M12215-01	Superior Vena Cava Diameter
MRUS	M12215-02	Inferior Vena Cava Velocity
MRUS	M12215-03	Superior Vena Cava Velocity
MRUS	C12215-01	Inferior Vena Cava Pressure Gradient

MRUS	C12215-02	Superior Vena Cava Pressure Gradient
MRUS	C12215-05	Collapsible index of superior vena cava
MRUS	C12215-06	

MRUS	T-87000-23	Ovarian Finding 3
MRUS	T-87000-24	Ovarian Finding 4
MRUS	T-87000-25	Ovarian Finding 5
MRUS	T-87000-26	Ovarian Finding 6

A.103. CID (uterine_finding) OB-GYN Measurements

CSD	CV	Code Meaning
MRUS	T-87000-27	Uterine Finding 1
MRUS	T-87000-28	Uterine Finding 2
MRUS	T-87000-29	Uterine Finding 3
MRUS	T-87000-30	Uterine Finding 4
MRUS	T-87000-31	Uterine Finding 5
MRUS	T-87000-32	Uterine Finding 6

A.104. Mapping between Modality measurements and DICOM Concepts.

A.104.1.

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,MRUS,Thoracic Diameter
HrtC	M12005-02,MRUS,Heart Circumference
HUM	11966-9,LN,Humerus length
RAD	11967-7,LN,Radius length
Ulna	11969-3,LN,Ulna length
Tibia	11968-5,LN,Tibia length
FIB	11964-4,LN,Fibula length
CLAV	11962-8,LN,Clavicle length
LVW	12171-5,LN,Lateral Ventrical width
NF	12146-7,LN,Nuchal Fold thickness
IOD	33070-4,LN,Inner Orbital Diameter
OOD	11629-3,LN,Outer Orbital Diameter
TCD	11863-8,LN,Trans Cerebellar Diameter
NT	33069-6,LN,Nuchal Translucency
HW	12170-7,LN,Width of Hemisphere
Ear	M12007-01,MRUS,Ear Length
MP	M12007-02,MRUS,Middle Phalanx Length
Orbit	M12007-03,MRUS,Orbit
OFD(HC)	M12007-04,MRUS,OFDHC
HC(c)	C12007-01,MRUS,HCc
IT	M12007-05,MRUS,intracranial translucency
AF1	11624-4,LN,First Quadrant Diameter

MODALITY Label	*DICOM Mapping*
AF2	11626-9,LN,Second Quadrant Diameter
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

MODALITY Label	*DICOM Mapping*
Lesion2.H	M12011-14,MRUS,Lesion2 Height
Lesion3.L	M12011-15,MRUS,Lesion3 Length
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

MODALITY Label	*DICOM Mapping*
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
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	M12009-02,MRUS,Gestational Sac Diameter2
Sac Diam3	M12009-03,MRUS,Gestational Sac Diameter3
F.kidney	M12005-05 MRUS Fetal Kidney length
F.kidney.H	M12005-07 MRUS Fetal Kidney Height
F.kidney.W	M12005-08 MRUS Fetal Kidney width
Lung	T-28000,SRT,Lung
Stomach	T-57000,SRT,Stomach
Heart.T	M12005-09 MRUS Cardiac Diameter (T)
Heart.AP	M12005-10 MRUS Cardiac Diameter (A-P)
Lung.CCAM.L	M12005-11 MRUS Lung CCAM Length
Lung.CCAM.H	M12005-12 MRUS Lung CCAM Height
Lung.CCAM.W	M12005-13 MRUS Lung CCAM Width

MODALITY Label	*DICOM Mapping*
AD	M12005-14 MRUS Abdominal Diameter
Lliac.Wing.Angle	M12005-15 MRUS Lliac Wing Angle
FAGL	M12005-16 MRUS Fetal adrenal gland length
FAGA	M12005-17 MRUS,Fetal adrenal gland area
FAGC	M12005-18 MRUS Fetal adrenal gland circumference
Intestinum.Crassum	M12005-19 MRUS Intestinum Crassum
Liver.Length	M12005-20 MRUS Liver Length
Rib.Length	M12005-21 MRUS Rib Length
Shoulder.Blade	M12005-22 MRUS Shoulder Blade
MAD	C12005-7 MRUS Mean Abdominal Diameter
MV.C.O.dur	M12240-13,MRUS, Mitral Ventricular CO Dur
TV.C.O.dur	M12240-14,MRUS, Tricuspid Ventricular CO Dur
LVIMP	M12240-15,MRUS,Left Ventricular Tei Index
RVIMP	M12240-16,MRUS,Right Ventricular Tei Index
LV.ETDoppler	M12240-17,MRUS,Left Ventricular Tei Index-Doppler
RV.ETDoppler	M12240-18,MRUS, Right Ventricular Tei Index-Doppler
HC.LA	M12005-23,MRUS,Long axis Head Circumference
HC.SA	M12005-24,MRUS,Short axis Head Circumference

MODALITY Label	*DICOM Mapping*
TD.Dist	M33068-9,MRUS,Thoracic Diameter
TAD	11862-0,LN,Transverse Abdominal Diameter
ACc	C12005-01,MRUS,Abdominal Circumference c
NBL	M12005-06,MRUS,Nose Bone Length
DVP	M314158,MRUS,DVP
GP	125012,DCM,Growth Percentile Rank
SD	121414,DCM,Standard deviation of population
GZ	125013,DCM,Growth Z-score
GA.OD	11886-9,LN,Gestational Age by ovulation date
EDV	11653-3,LN,End Diastolic Velocity
MDV	11665-7 ,LN,Minimum Diastolic Velocity
TAMV	20352-1,LN,Time averaged mean velocity
TAPV	11692-1,LN ,Time averaged peak velocity
PSV	11726-7,LN,Peak Systolic Velocity
PV	11726-7,LN,Peak Velocity
VolFlow	33878-0,LN,Volume Flow
PI	12008-9,LN,Pulsatility Index
RI	12023-8,LN,Resistivity Index
S/D	12144-2,LN,Systolic to Diastolic Velocity Ratio
D/S	M12119-04,MRUS,Diastolic to Systolic Velocity Ratio
S/A	C12121-1,MRUS,Systolic to Atrial Contraction Velocity Ratio
D	M12120-1,MRUS,Peak Early Diastolic Velocity
PVIV	C12121-2,MRUS,Peak velocity index for the vein
AT	20168-1,LN,Acceleration Time
DT	20217-6,LN,Deceleration Time
PG	20247-3,LN,Peak Gradient
MG	20256-4,LN,Mean Gradient
LS	R-1025F,SRT,Length of Segment
MVMPG	M12119-01,MRUS,Mean Velocity Mean Pressure Gradient
VTI	20354-7,LN,Velocity Time Integral
Theta	M12119-02,MRUS,Angle
Vol Flow(TAMAX&VAS_AREA)	M12119-06,MRUS,Vol Flow(TAMAX&VAS_AREA)
Vol Flow(TAMEAN&VAS_AREA)	M12119-07,MRUS,Vol Flow(TAMEAN&VAS_AREA)
AoD.Zscore	M18015-9,MRUS,Aortic Value Diameter(Z Score)

MODALITY Label	*DICOM Mapping*
PV.Fetal.Diam	99903-3,GEK,Pulmonary Valve Width
MPA.Diam	18020-8,LN,Main Pulmonary Artery Diameter
IVSs	18158-6,LN,Interventricular Septum Systolic Thickness
IVSd	18154-5,LN,Interventricular Septum Diastolic Thickness
LVOT.Area	M12201-10,MRUS,Left Ventricular Outflow Tract Area
AV.Area	M12240-13,MRUS,Aortic Valve Area
PV.Area	M12240-14,MRUS,Pulmonic Valve Area
OW-L	11829-9,LN,Left Ovary Width
OL-L	11840-6,LN,Left Ovary Length
OH-L	11857-0,LN,Left Ovary Height
OV-L	12164-0,LN,Left Ovary Volume
OW-R	11830-7,LN,Right Ovary Width
OL-R	11841-4,LN,Right Ovary Length
OH-R	11858-8,LN,Right Ovary Height
OV-R	12165-7,LN,Right Ovary Volume
NOF.L	11879-4,LN,Number of follicles in left ovary
NOF.R	11880-2,LN,Number of follicles in right ovary
NOSF.L	M11879-4,MRUS,Number of smart follicles in left ovary
NOSF.R	M11880-2,MRUS,Number of smart follicles in right ovary
NOFIB	99704-0,GEK,Number of fibroids
NOOC	99714-0,GEK,Number of Ovarin Cyst
FetID	11951-1,LN,Fetus ID
FolID	125010,DCM,Identifier
FibID	12510,DCM,Identifier
FD	M11793-02,MRUS,Follicle d1
FW	M11793-01,MRUS,Follicle d3
FThick	M11794-01,MRUS,Follicle d2
FDiam	C11793-01,MRUS,Mean Follicle Diameter
FVol	G-D705,SRT,Follicle Volume
AutoFD	M11793-05,MRUS,Smart Follicle d1
AutoFW	M11793-06,MRUS,Smart Follicle d2
AutoFThick	M11793-07,MRUS,Smart Follicle d3
AutoFDiam	M11793-04,MRUS,Smart Follicle MeanDiam
AutoFVol	G-D705-1,MRUS,Volume

MODALITY Label	*DICOM Mapping*
Follicle.CD.Num	M11793-10,MRUS,Smart Follicle Num
Follicle.L	M11793-11,MRUS,Smart Follicle Length
Follicle.W	M11793-12,MRUS,Smart Follicle Width
Follicle.Diam	M11793-13,MRUS,Smart Follicle Diam
Follicle.Vol	M11793-14,MRUS,Smart Follicle Volume
Follicle.CD.Num	M11793-15,MRUS,Follicle Vascularity Num
Follicle.L.CPP	M11793-16,MRUS,Follicle Vascularity Length
Follicle.W.CPP	M11793-17,MRUS,Follicle Vascularity Width
Follicle.Diam.CPP	M11793-18,MRUS,Follicle Vascularity Diam
BrainVolume.In.Height	M12005-50,MRUS,Fetal BrainVolume Inner Height
BrainVolume.In.Length	M12005-51,MRUS,Fetal BrainVolume Inner Length
BrainVolume.In.Vol	M12005-52,MRUS,Fetal BrainVolume Inner Vol
BrainVolume.In.Width	M12005-53,MRUS,Fetal BrainVolume Inner Width
BrainVolume.Ori.FI	M12005-54,MRUS,Fetal BrainVolume Ori FI
BrainVolume.Ori.Height	M12005-55,MRUS,Fetal BrainVolume Ori Height
BrainVolume.Ori.Length	M12005-56,MRUS,Fetal BrainVolume Ori Length
BrainVolume.Ori.MG	M12005-57,MRUS,Fetal BrainVolume Ori MG
BrainVolume.Ori.VFI	M12005-58,MRUS,Fetal BrainVolume Ori VFI
BrainVolume.Ori.VI	M12005-59,MRUS,Fetal BrainVolume Ori VI
BrainVolume.Ori.Vol	M12005-60,MRUS,Fetal BrainVolume Ori Vol
BrainVolume.Ori.Width	M12005-61,MRUS,Fetal BrainVolume Ori Width
BrainVolume.Out.Height	M12005-62,MRUS,Fetal BrainVolume Outer Height
BrainVolume.Out.Length	M12005-63,MRUS,Fetal BrainVolume Outer Length
BrainVolume.Out.Vol	M12005-64,MRUS,Fetal BrainVolume Outer Vol

MODALITY Label	*DICOM Mapping*
OCL	T-87000-1,MRUS,Ovarian Cyst Length
OCW	T-87000-2,MRUS,Ovarian Cyst Width
OCH	T-87000-3,MRUS,Ovarian Cyst Height
OCV	T-87000-4,MRUS,Ovarian Cyst Volume
LESION1L	M12011-13,MRUS,Lesion1 Length
LESION1W	M12011-14,MRUS,Lesion1 Width
LESION1H	M12011-15,MRUS,Lesion1 Height
LESION2L	M12011-16,MRUS,Lesion2 Length
LESION2W	M12011-17,MRUS,Lesion2 Width
LESION2H	M12011-18,MRUS,Lesion2 Height
LESION3L	M12011-19,MRUS,Lesion3 Length
LESION3W	M12011-20,MRUS,Lesion3 Width
LESION3H	M12011-21,MRUS,Lesion3 Height
LESION1V	C12011-24,MRUS,Lesion1 Volume
LESION2V	C12011-25,MRUS,Lesion2 Volume
LESION3V	C12011-26,MRUS,Lesion3 Volume
SmartPF.BSD.C1.S	M99901-61,MRUS,Bladder Neck-Symphyseal Distance1 (Valsava)
SmartPF.PVD.C1.S	M99901-

MODALITY Label	*DICOM Mapping*
SmartPF.RA.C3.S	M99901-89,MRUS,Retrovesical Angle3 (Valsava)
SmartPF.UTA.C3.S	M99901-90,MRUS,Urethral Tilt Angle3 (Valsava)
SmartPF.URA.C1	C99901-09,MRUS,Urethral Rotation Angle1 (calc)
SmartPF.URA.C2	C99901-11,MRUS,Urethral Rotation Angle2 (calc)
SmartPF.URA.C3	C99901-13,MRUS,Urethral Rotation Angle3 (calc)
SmartPF.CSD.C1.R	M99901-91,MRUS,Cx-SP Dist.(Rest)
SmartPF.CSD.C1.S	M99901-92,MRUS,Cx-SP Dist.(Valsava)
SmartPF.RSD.C1.R	M99901-93,MRUS,RA-SP Dist.(Rest)
SmartPF.RSD.C1.S	M99901-94,MRUS,RA-SP Dist.(Valsava)
SmartPF.UTA.Sign.C1.R	M99901-95,MRUS,UTA Sign Distance1(Rest)
SmartPF.UTA.Sign.C1.S	M99901-96,MRUS,UTA Sign Distance1(Valsava)
SmartPF.UTA.Sign.C2.R	M99901-97,MRUS,UTA Sign Distance2(Rest)
SmartPF.UTA.Sign.C2.S	M99901-98,MRUS,UTA Sign Distance2(Valsava)
SmartPF.UTA.Sign.C3.R	M99901-99,MRUS,UTA Sign Distance3(Rest)
SmartPF.UTA.Sign.C3.S	M99901-100,MRUS,UTA Sign Distance3(Valsava)
Kidney.L	M12005-05,MRUS,Fetal Kidney length
Kidney.H	M12005-07,MRUS,Fetal Kidney Height
Kidney.W	M12005-08,MRUS,Fetal Kidney width
Lung	T-28000,SRT,Lung
Stomach	T-57000,SRT,Stomach
Heart.T	M12005-09,MRUS,Cardiac Diameter (T)
Heart.AP	M12005-10,MRUS,Cardiac Diameter (A-P)
Lung.CCAM.L	M12005-11,MRUS,Lung CCAM Length
Lung.CCAM.H	M12005-12,MRUS,Lung CCAM Height
Lung.CCAM.W	M12005-13,MRUS,Lung CCAM Width
AD	M12005-14,MRUS,Abdominal Diameter
Lliac.Wing.Angle	M12005-15,MRUS,Lliac Wing Angle
FAGL	M12005-16,MRUS,Fetal adrenal gland length
FAGA	M12005-17,MRUS,Fetal adrenal gland area

MODALITY Label	*DICOM Mapping*
Kidney.Vol	C12005-5,MRUS,Kidney Volume
Lung.CCAM.Vol	C12005-6,MRUS,Lung CCAM Volume
LV.Width	M12240-03,MRUS,Left Ventricular Width
LV.Length	M12240-04,MRUS,Left Ventricular Length
RV.Width	M12204-10,MRUS,Right Ventricular Width
RV.Length	M12204-11,MRUS,Right Ventricular Length
LA.Width	M12205-03,MRUS,Left Atrium Width
RA.Width	M12206-03,MRUS,Right Atrium Width
LVWd	M12240-05,MRUS,Left Ventricular Wall at end diastole
LVWs	M12240-06,MRUS,Left Ventricular Wall at end systole
RVWd	M12204-12,MRUS,Right Ventricular Wall at end diastole
RVWs	M12204-13,MRUS,Right Ventricular Wall at end systole
AV.Diam	T-35410,SRT,Aortic Valve Ring
AV.Area	M12204-19,MRUS,Aortic Valve Area
MV.E	18037-2,LN,Mitral Valve E-Wave Peak Velocity
MV.A	17978-8,LN,Mitral Valve A-Wave Peak Velocity
MV.E.A	18038-0,LN,Mitral Valve E to A Ratio
TV.E	18031-5,LN,Tricuspid Valve E Wave Peak Velocity
TV.A	18030-7,LN,Tricuspid Valve A Wave Peak Velocity
TV.E.A	18039-8,LN,Tricuspid Valve E to A Ratio
AV.PV	79964-3,LN,Aortic valve Vmax
AV.TPV	T-35410-1,MRUS,Aortic Valve Time to Peak
AV.TPV.Time	T-35410-2,MRUS,Aortic Valve Time to Peak
AV.VTI	79965-0,LN,Aortic valve VTI
PV.PV	79920-5,LN,Pulmonic valve Vmax
PV.TPV	T-35200-1,MRUS,Pulmonic valve Time to Peak
PV.TPV.Time	T-35200-1-1,MRUS,Pulmonic valve Time to Peak
PV.VTI	79910-6,LN,Pulmonic valve VTI
PV.Area	T-35200-2,MRUS,Pulmonic Valve Area
Duct.Art.PV	T-F6845-1,MRUS,Ductus arteriosus Vmax
Duct.Art.TPV	T-F6845-2,MRUS,Ductus arteriosus Time to Peak
Duct.Art.TPV.Time	T-F6845-2-1,MRUS,Ductus arteriosus Time to Peak
Duct.Art.VTI	T-F6845-3,MRUS,Ductus arteriosus VTI
MVE	T-35300-1,MRUS,MVE

MODALITY Label	*DICOM Mapping*
TVE	T-35100-1,MRUS,TVE
AVE	T-35400-1,MRUS,AVE
MAPSE	T-35300-2,MRUS,Mitral annular plane systolic excusion
TAPSE	77903-3,LN,Tricuspid annular plane systolic excusion
MV.E#	T-35300-3,MRUS,Mitral Valve E-Wave Peak Velocity(TDI)
MV.A#	T-35300-4,MRUS,Mitral Valve A-Wave Peak Velocity(TDI)
MV.S#	T-35300-5,MRUS,Mitral Valve S-Wave Peak Velocity(TDI)
TV.E#	T-35100-2,MRUS,Tricuspid Valve E Wave Peak Velocity(TDI)
TV.A#	T-35100-3,MRUS,Tricuspid Valve A Wave Peak Velocity(TDI)
TV.S#	T-35100-4,MRUS,Tricuspid Valve S Wave Peak Velocity(TDI)
LV.ICT	G-037E,SRT,Left Ventricular Isovolumic Contraction Time
LV.IRT	18071-1,LN,Left Ventricular Isovolumic Relaxation Time
LV.ET	M12240-07,MRUS,Left Ventricular Ejection Time
RV.ICT	M12204-14,MRUS,Right Ventricular Isovolumic Contraction Time
RV.IRT	M12204-15,MRUS,Right Ventricular Isovolumic Relaxation Time
RV.ET	M12204-16,MRUS,Right Ventricular Ejection Time
LV.EDV	M12240-08,MRUS,Left Ventricular EDV
RV.EDV	M12204-17,MRUS,Right Ventricular EDV
MV.E.A	18038-0,LN,Mitral valve E-to-A ratio
TV.E.A	CT-35100-1,MRUS,Tricuspid Valve E-to-A ratio
MV.E.E#	T-35300-6,MRUS,Mitral valve E-to-E' ratio
TV.E.E#	CT-35100-2,MRUS,Tricuspid Valve E-to-E' ratio
UT.AW	M12011-13,MRUS,UT Anterior wall thickness
UT.PW	M12011-14,MRUS,UT Posterior wall thickness
AH	33197-5,LN,Anterior Horn Lateral ventricular width
PH	33196-7,LN,Posterior Horn Lateral ventricular width
3rd.Ventricle	T-A1740,SRT,Third ventricle
NT.Above.Cord	M12007-06,MRUS,NT above cord
NT.Below.Cord	M12007-07,MRUS,NT below cord
Mandible	T-11180,SRT,Mandible
Prenasal.th	M12007-09,MRUS,Prenasal thickness
CSP	M12007-10,MRUS,Cavum Septum Pellucidum
FMF	M12007-11,MRUS,Frontomaxillary facial angle

MODALITY Label	*DICOM Mapping*
MMF	M12007-12,MRUS,Mandibulomaxillary facial angle
GS4	F12013-44,MRUS,Mean Gestational Sac Diameter, Daya 1991
YS.L	M12009-04,MRUS,Yolk Sac length
YS.H	M12009-05,MRUS,Yolk Sac Height
YS.W	M12009-06,MRUS,Yolk Sac Width
Amniotic.Sac.L	M12009-07,MRUS,Amniotic sac length
Amniotic.Sac.H	M12009-08,MRUS,Amniotic sac Height
Amniotic.Sac.W	M12009-09,MRUS,Amniotic sac Width
Ovary.Cyst.L	M12009-10,MRUS,Ovary Cyst length
Ovary.Cyst.H	M12009-11,MRUS,Ovary Cyst Height
Ovary.Cyst.W	M12009-12,MRUS,Ovary Cyst Width
YS.Vol	C12009-02,MRUS,Yolk Sac Volume
Amniotic.Sac.Vol	C12009-03,MRUS,Amniotic sac Volume
Ovary.Cyst.Vol	C12009-04,MRUS,Ovary Cyst Volume
LV.EF	M12240-11,MRUS,Left Ventricular EF
RV.SV	M12204-18,MRUS,Right Ventricular SV
RV.CO	M12204-19,MRUS,Right Ventricular CO
RV.EF	M12204-20,MRUS,Right Ventricular EF
LV.Tei	M12240-12,MRUS,Left Ventricular myocardial performance index
RV.Tei	80086-2,LN,Right ventricular myocardial performance index
LV.FS	18051-3,LN,Left Ventricular Fractional Shortening
LV.SV	M12240-09,MRUS,Left Ventricular SV
LV.CO	M12240-10,MRUS,Left Ventricular CO
MV.C.O.dur	M12240-13,MRUS,Mitral Ventricular CO Dur
TV.C.O.dur	M12240-14,MRUS,Tricuspid Ventricular CO Dur
RV.ETDoppler	M12240-18,MRUS,Right Ventricular Tei Index-Doppler
CCO	C313563,MRUS,CCO
LVOT.Diam	99915-2,GEK,Diameter
LVOT.Area	99915-3,GEK,Area
LVOT.Vmax	99915-4,GEK,V max
LVOT.PGmax	99915-5,GEK,PeakPG
LVOT.Vmean	99915-7,GEK,TAmean
LVOT.PGmean	99915-8,GEK,MnPG

MODALITY Label	*DICOM Mapping*
LVOT.VTI	99915-9,GEK,VTI
LVOT.HR	99915-10,GEK,Heart Rate
LVOT.Theta	99915-15,GEK,Angle
RVOT.Diam	99916-2,GEK,Diameter
RVOT.Area	99916-3,GEK,Area
RVOT.Vmax	99916-4,GEK,V max
RVOT.PGmax	99916-5,GEK,PeakPG
RVOT.Vmean	99916-7,GEK,TAmean
RVOT.PGmean	99916-8,GEK,MnPG
RVOT.VTI	99916-9,GEK,VTI
RVOT.HR	99916-10,GEK,Heart Rate
RVOT.Theta	99916-15,GEK,Angle
Pelvic.Auto.UT.R.Dist	M31352401,MRUS,Pelvic.Auto.UT.R.Dist
Pelvic.CMPR.LH.AP.Diam.Closed	M313275,MRUS,Pelvic.CMPR.LH.AP.Diam.Closed
Pelvic.CMPR.LH.AP.Diam.Closing	M313269,MRUS,Pelvic.CMPR.LH.AP.Diam.Closing
Pelvic.CMPR.LH.AP.Diam.Open	M312998,MRUS,Pelvic.CMPR.LH.AP.Diam.Open
Pelvic.CMPR.LH.Area.Closed	M313277,MRUS,Pelvic.CMPR.LH.Area.Closed
Pelvic.CMPR.LH.Area.Closing	M313271,MRUS,Pelvic.CMPR.LH.Area.Closing
Pelvic.CMPR.LH.Area.Open	M313000,MRUS,Pelvic.CMPR.LH.Area.Open
Pelvic.CMPR.LH.Circ.Closed	M313278,MRUS,Pelvic.CMPR.LH.Circ.Closed
Pelvic.CMPR.LH.Circ.Closing	M313272,MRUS,Pelvic.CMPR.LH.Circ.Closing
Pelvic.CMPR.LH.Circ.Open	M313001,MRUS,Pelvic.CMPR.LH.Circ.Open
Pelvic.CMPR.LH.Lat.Diam.Closed	M313276,MRUS,Pelvic.CMPR.LH.Lat.Diam.Closed
Pelvic.CMPR.LH.Lat.Diam.Closing	M313270,MRUS,Pelvic.CMPR.LH.Lat.Diam.Closing
Pelvic.CMPR.LH.Lat.Diam.Open	M312999,MRUS,Pelvic.CMPR.LH.Lat.Diam.Open
Pelvic.CMPR.LUG1.Closed	M313279,MRUS,Pelvic.CMPR.LUG1.Closed

MODALITY Label	*DICOM Mapping*
HC	M310274,MRUS,HC
OFDHC	M310277,MRUS,OFDHC
BPD	M310266,MRUS,BPD
CIHC	C310269,MRUS,CIHC
TCD	M310297,MRUS,TCD
Cist.Magna	M310327,MRUS,Cist.Magna
AC	M310281,MRUS,AC
HC.AC	C310276,MRUS,HC.AC
TCD.AC	C310283,MRUS,TCD.AC
AF1.Dist	M31043501,MRUS,AF1.Dist
AFI	C310379,MRUS,AFI
Fetal.MV.Diam.Dist	M31351301,MRUS,Fetal.MV.Diam.Dist
Fetal.TV.Diam.Dist	M31351401,MRUS,Fetal.TV.Diam.Dist
HrtD.Dist	M31048801,MRUS,HrtD.Dist
HrtA.Area	M31045701,MRUS,HrtA.Area
CarAxis.Angle.Angle	M31350401,MRUS,CarAxis.Angle.Angle
LV.Major.Dist	M31350501,MRUS,LV.Major.Dist
LV.Minor.Dist	M31350601,MRUS,LV.Minor.Dist
RV.Major.Dist	M31350701,MRUS,RV.Major.Dist
RV.Minor.Dist	M31350801,MRUS,RV.Minor.Dist
LV.Area.Area	M31045301,MRUS,LV.Area.Area
RV.Area.Area	M31045501,MRUS,RV.Area.Area
LA.Major.Dist	M31350901,MRUS,LA.Major.Dist
LA.Minor.Dist	M31351001,MRUS,LA.Minor.Dist
RA.Major.Dist	M31351101,MRUS,RA.Major.Dist
RA.Minor.Dist	M31351201,MRUS,RA.Minor.Dist
LA.Area.Area	M31045401,MRUS,LA.Area.Area
RA.Area.Area	M31045601,MRUS,RA.Area.Area
Fetal.PV.Diam.Dist	M31351601,MRUS,Fetal.PV.Diam.Dist
MPA.Diam.Dist	M31045101,MRUS,MPA.Diam.Dist
LV.RV.Major	C313526,MRUS,LV.RV.Major
LV.RV.Minor	C313527,MRUS,LV.RV.Minor
LV.RV.Area	C313528,MRUS,LV.RV.Area
OFD	M310272,MRUS,OFD
CI	C310268,MRUS,CI
HCc	C310270,MRUS,HCc
HCc.Chitty	C310368,MRUS,HCc.Chitty
HCc.Hadlock	C310369,MRUS,HCc.Hadlock
HCc.Nicolaides	C310370,MRUS,HCc.Nicolaides
HCc.Jeanty	C310371,MRUS,HCc.Jeanty
HCc.Hansmann	C310372,MRUS,HCc.Hansmann
AV.Diam.Dist	M31049901,MRUS,AV.Diam.Dist

MODALITY Label	*DICOM Mapping*
Fetal.LPA.Diam.Dist	M31351701,MRUS,Fetal.LPA.Diam.Dist
Fetal.RPA.Diam.Dist	M31351801,MRUS,Fetal.RPA.Diam.Dist
Fetal.Ao.Asc.Diam.Dist	M31351501,MRUS,Fetal.Ao.Asc.Diam.Dist
CSP.H.Dist	M31350001,MRUS,CSP.H.Dist
HrtL.Dist	M31354801,MRUS,HrtL.Dist
Hrt.GSI	C313547,MRUS,Hrt.GSI
FO.Size.Dist	M31359401,MRUS,FO.Size.Dist
VSD.Size.Dist	M31359501,MRUS,VSD.Size.Dist
ASD.Size.Dist	M31359601,MRUS,ASD.Size.Dist
Shunt.Diam.Dist	M31359701,MRUS,Shunt.Diam.Dist
Trachea.Diam.Dist	M31359801,MRUS,Trachea.Diam.Dist
Length.of.HAAo.Dist	M31359901,MRUS,Length.of.HAAo.Dist
CA.Diam.Dist	M31360001,MRUS,CA.Diam.Dist
TV.Downward.Dist.Dist	M31360101,MRUS,TV.Downward.Dist.Dist
Aneurysm.Dmax.Dist	M31360201,MRUS,Aneurysm.Dmax.Dist
Aneurysm.Width.Dist	M31360301,MRUS,Aneurysm.Width.Dist
Aneurysm.Bulging.Depth.Dist	M31360401,MRUS,Aneurysm.Bulging.Depth.Dist
Orifice.Diam.Dist	M31360901,MRUS,Orifice.Diam.Dist
Fistula.Diam.Dist	M31361001,MRUS,Fistula.Diam.Dist
LV.Wall.thickness.Dist	M31361101,MRUS,LV.Wall.thickness.Dist
RV.Wall.thickness.Dist	M31361201,MRUS,RV.Wall.thickness.Dist
APW.Size.Dist	M31361301,MRUS,APW.Size.Dist
AD.Dist.Dist	M31361401,MRUS,AD.Dist.Dist
CSSD.Size.Dist	M31361501,MRUS,CSSD.Size.Dist
TA.Diam.Dist	M31361601,MRUS,TA.Diam.Dist
RVOT.Diam.Dist	M31045201,MRUS,RVOT.Diam.Dist
LAA.Diam.Dist	M31360501,MRUS,LAA.Diam.Dist
RAA.Diam.Dist	M31360601,MRUS,RAA.Diam.Dist
EPV.Diam.Dist	M31360801,MRUS,EPV.Diam.Dist
CPV.Diam.Dist	M31363801,MRUS,CPV.Diam.Dist
VSD.AoA	C313622,MRUS,VSD.AoA
FO.AoA	C313623,MRUS,FO.AoA
LVOT.Vmax.PGmax	C31365102,MRUS,LVOT.Vmax.PGmax
PV.Vmax.PGmax	C31364902,MRUS,PV.Vmax.PGmax
RVOT.Vmax.PGmax	C31364802,MRUS,RVOT.Vmax.PGmax
CPV.Vmax.Vmax	M31365601,MRUS,CPV.Vmax.Vmax
Ao.Overrding.Degree.DistRatio	C31370105,MRUS,Ao.Overrding.Degree.DistRatio
PA.Overrding.Degree.DistRatio	C31370505,MRUS,PA.Overrding.Degree.DistRatio
TA.Overrding.Degree.DistRatio	C31370305,MRUS,TA.Overrding.Degree.DistRatio
Ao.Overrding.Degree.Dist1	M31370103,MRUS,Ao.Overrding.Degree.Dist1
Ao.Overrding.Degree.Dist2	M31370104,MRUS,Ao.Overrding.Degree.Dist2
PA.Overrding.Degree.Dist1	M31370503,MRUS,PA.Overrding.Degree.Dist1

MODALITY Label	*DICOM Mapping*
PA.Overrding.Degree.Dist2	M31370504,MRUS,PA.Overrding.Degree.Dist2
TA.Overrding.Degree.Dist1	M31370303,MRUS,TA.Overrding.Degree.Dist1
TA.Overrding.Degree.Dist2	M31370304,MRUS,TA.Overrding.Degree.Dist2
AOP	M133706,MRUS,Angle of progression
CCA	M133704,MRUS,Chin-to-chest angle
CD	M133700,MRUS,Cervical dilatation
CONJUGATE	M133699,MRUS,CONJUGATE
FHD	M133714,MRUS,Fetal head direction
HPD	M133709,MRUS,Head-perineum distance
HSD	M133708,MRUS,Head-symphysis distance
Head.Station	C133707,MRUS,Head.Station
MLA	M133710,MRUS,Midline angle
OSA	M133703,MRUS,Occiput-spine-angle
PCA	M133701,MRUS,Posterior cervical angle
SPA	M133698,MRUS,Subpubic arch angle
FHP.Checklist	M133713,MRUS,Fetal head position

A.104.2. 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.104.1. 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
<Vasculature Anatomic Location> AT	20168-1, LN,

<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
HrtD.TD	M12240-21,MRUS,HrtD.TD
TA	M12240-22,MRUS,TA
HrtA.TA	M12240-23,MRUS,HrtA.TA
HrtD	M12240-25,MRUS,HrtD

A.104.3. 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
LUS	FG4031-02,MRUS,LUS
Stomach	T-57000,SNM3,Stomach
Left Kidney	T-71000,SRT,Kidney
Right Kidney	T-71000,SRT,Kidney
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	FG4031-,MRUS,Sacral Spine
Placental Location	FG12011-01,MRUS,Placental Location
Amniotic Fluid	FG12011-02,MRUS,Amniotic Fluid
Placental Grade	FG12011-03,MRUS,Placental Grade

Adnexa	FG12011-03,MRUS,Adnexa
Ovaries	T-87000,SRT,Ovary
Kidney	T-71000,SRT,Kidney
Cervix	T-83200,SRT,Cervix

A.104.4. Pelvic Floor Measurements

BL Depth	M99901-01,MRUS,Bladder Length
BL Height	M99901-02,MRUS,Bladder Height
BL Width	M99901-03,MRUS,Bladder Width
DWT	M99901-04,MRUS,Detrusor Wall Thickness
BSD(R)	M99901-05,MRUS,Bladder Neck-Symphyseal Distance (Rest)
BSD(S)	M99901-06,MRUS,Bladder Neck-Symphyseal Distance (Stress)
RVA(R)	M99901-07,MRUS,Retrovesical Angle (Rest)
RVA(S)	M99901-08,MRUS,Retrovesical Angle (Stress)
UTA(R)	M99901-09,MRUS,Urethral Tilt Angle (Rest)
UTA(S)	M99901-10,MRUS,Urethral Tilt Angle (Stress)
PVA(R)	M99901-11,MRUS,Pubovesical Angle (Rest)
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) (Ref Coord C1)	M99901-56,MRUS,Maximal Bladder Descent1 (Rest)
PUA(R) (Ref Coord C1)	M99901-57,MRUS,Pubourethral Angle1 (Rest)
PVA(R) (Ref Coord C1)	M99901-58,MRUS,Pubovesical Angle1 (Rest)
RVA(R) (Ref Coord C1)	M99901-59,MRUS,Retrovesical Angle1 (Rest)
UTA(R) (Ref Coord C1)	M99901-60,MRUS,Urethral Tilt Angle1 (Rest)
BSD(S) (Ref Coord C1)	M99901-61,MRUS,Bladder Neck-Symphyseal Distance1 (Stress)
BL Desc. Max(S) (Ref Coord C1)	M99901-62,MRUS,Maximal Bladder Descent1 (Stress)

PUA(S) (Ref Coord C1)	M99901-63,MRUS,Pubourethral Angle1 (Stress)
PVA(S) (Ref Coord C1)	M99901-64,MRUS, Pubovesical Angle1 (Stress)
RVA(S) (Ref Coord C1)	M99901-65,MRUS,Retrovesical Angle1 (Stress)
UTA(S) (Ref Coord C1)	M99901-66,MRUS,Urethral Tilt Angle1 (Stress)
BSD(R) (Ref Coord C2)	M99901-67,MRUS,Bladder Neck-Symphyseal Distance2 (Rest)
BL Desc. Max(R) (Ref Coord C2)	M99901-68,MRUS,Maximal Bladder Descent2 (Rest)
PUA(R) (Ref Coord C2)	M99901-69,MRUS,Pubourethral Angle2 (Rest)
PVA(R) (Ref Coord C2)	M99901-70,MRUS,Pubovesical Angle2 (Rest)
RVA(R) (Ref Coord C2)	M99901-71,MRUS,Retrovesical Angle2 (Rest)
UTA(R) (Ref Coord C2)	M99901-72,MRUS,Urethral Tilt Angle2 (Rest)
BSD(S) (Ref Coord C2)	M99901-73,MRUS,Bladder Neck-Symphyseal Distance2 (Stress)
BL Desc. Max(S) (Ref Coord C2)	M99901-74,MRUS,Maximal Bladder Descent2 (Stress)
PUA(S) (Ref Coord C2)	M99901-75,MRUS,Pubourethral Angle2 (Stress)
PVA(S) (Ref Coord C2)	M99901-76,MRUS, Pubovesical Angle2 (Stress)
RVA(S) (Ref Coord C2)	M99901-77,MRUS,Retrovesical Angle2 (Stress)
UTA(S) (Ref Coord C2)	M99901-78,MRUS,Urethral Tilt Angle2 (Stress)
BSD(R) (Ref Coord C3)	M99901-79,MRUS,Bladder Neck-Symphyseal Distance3 (Rest)
BL Desc. Max(R) (Ref Coord C3)	M99901-80,MRUS,Maximal Bladder Descent3 (Rest)
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)
BND(Ref Coord C1)	C99901-10,MRUS,Bladder Neck Descent1
BND(Ref Coord C2)	C99901-12,MRUS,Bladder Neck Descent2
BND(Ref Coord C3)	C99901-14,MRUS,Bladder Neck Descent3
LUG1(R)	M99901-91,MRUS,Levator Urethra Gap1 (Rest)
LUG1(Va)	M99901-92,MRUS,Levator Urethra Gap1 (Valsava)
LUG1(C)	M99901-93,MRUS,Levator Urethra Gap1 (Contraction)
LUG2(R)	M99901-94,MRUS,Levator Urethra Gap2 (Rest)
LUG2(Va)	M99901-95,MRUS,Levator Urethra Gap2 (Valsava)
LUG2(C)	M99901-96,MRUS,Levator Urethra Gap2 (Contraction)

A.104.1. GYN Elastography Measurements

MODALITY Label	*DICOM Mapping*
GYN.Lesion1.Strain	ME10000-151,MRUS,Lesion1 Strain
GYN.Lesion2.Strain	ME10000-152,MRUS,Lesion2 Strain
GYN.Lesion3.Strain	ME10000-153,MRUS,Lesion3 Strain
GYN.Fibroid1.Strain	ME10000-154,MRUS,Fibroid1 Strain
GYN.Fibroid2.Strain	ME10000-155,MRUS,Fibroid2 Strain
GYN.Fibroid3.Strain	ME10000-156,MRUS,Fibroid3 Strain
GYN.Lesion1.Elas	ME10000-157,MRUS,Lesion1 Elas
GYN.Lesion2.Elas	ME10000-158,MRUS,Lesion2 Elas
GYN.Lesion3.Elas	ME10000-159,MRUS,Lesion3 Elas
GYN.Fibroid1.Elas	ME10000-160,MRUS,Fibroid1 Elas
GYN.Fibroid2.Elas	ME10000-161,MRUS,Fibroid2 Elas
GYN.Fibroid3.Elas	ME10000-162,MRUS,Fibroid3 Elas
GYN.Lesion1.StrRt	ME10000-163,MRUS,Lesion1 StrRt
GYN.Lesion2.StrRt	ME10000-164,MRUS,Lesion2 StrRt
GYN.Lesion3.StrRt	ME10000-165,MRUS,Lesion3 StrRt
GYN.Fibroid1.StrRt	ME10000-166,MRUS,Fibroid1 StrRt
GYN.Fibroid2.StrRt	ME10000-167,MRUS,Fibroid2 StrRt
GYN.Fibroid3.StrRt	ME10000-168,MRUS,Fibroid3 StrRt
GYN.Lesion1.ERt	ME10000-169,MRUS,Lesion1 ERt
GYN.Lesion2.ERt	ME10000-170,MRUS,Lesion2 ERt
GYN.Lesion3.ERt	ME10000-171,MRUS,Lesion3 ERt
GYN.Fibroid1.ERt	ME10000-172,MRUS,Fibroid1 ERt
GYN.Fibroid2.ERt	ME10000-173,MRUS,Fibroid2 ERt
GYN.Fibroid3.ERt	ME10000-174,MRUS,Fibroid3 ERt
GYN.Finding1.ERt	ME10000-175,MRUS,Finding1 ERt
GYN.Finding2.ERt	ME10000-176,MRUS,Finding2 ERt
GYN.Finding3.ERt	ME10000-177,MRUS,Finding3 ERt
Shell.A.Max	MRUS TCE10000-0,Shell A Max
Shell.A.Mean	MRUS TCE10000-1Shell A Mean
Shell.A.Min	MRUS TCE10000-2Shell A Min
Shell.A.SD	MRUS TCE10000-3Shell A SD
Ratio.Area.A1.A	MRUS TCE10000-4Ratio Area A1 A

Ratio.Diam.A1.A	MRUS	TCE10000-5	Ratio Diam A1 A
STVi.Ratio.Mean	MRUS	TCE10000-6	STVi Ratio Mean
STVi.Ratio.Max	MRUS	TCE10000-7	STVi Ratio Max
STVi.Ratio.Min	MRUS	TCE10000-8	STVi Ratio Min
STVi.Ratio.SD	MRUS	TCE10000-9	STVi Ratio SD
A.B	MRUS	TCE10000-11	A B
A1.B	MRUS	TCE10000-12	A1 B
Shell.A	MRUS	TCE10000-13	Shell A
Shell.B	MRUS	TCE10000-14	Shell B
STVi.A.B	MRUS	TCE10000-17	STVi A B
STVi.A1.B	MRUS	TCE10000-18	STVi A1 B
STVi.Shell.A	MRUS	TCE10000-19	STVi Shell A
STVi.Shell.B	MRUS	TCE10000-20	STVi Shell B
B.A	MRUS	TCE10000-27	B A
B.A1	MRUS	TCE10000-28	B A1
A.Shell	MRUS	TCE10000-29	A Shell
B.Shell	MRUS	TCE10000-30	B Shell
B.A.1	MRUS	TCE10000-33	B A 1
A.Shell.1	MRUS	TCE10000-34	A Shell 1
B.Shell.1	MRUS	TCE10000-35	B Shell 1
B.A1.1	MRUS	TCE10000-36	B A1 1
Ratio.Area.A1.A.1	MRUS	TCE10000-37	Ratio Area A1 A 1
B.A.2	MRUS	TCE10000-38	B A 2
A.Shell.2	MRUS	TCE10000-39	A Shell 2
B.Shell.2	MRUS	TCE10000-40	B Shell 2
B.A1.2	MRUS	TCE10000-41	B A1 2
Ratio.Area.A1.A.2	MRUS	TCE10000-42	Ratio Area A1 A 2
B.A.3	MRUS	TCE10000-43	B A 3
A.Shell.3	MRUS	TCE10000-44	A Shell 3
B.Shell.3	MRUS	TCE10000-45	B Shell 3
B.A1.3	MRUS	TCE10000-46	B A1 3
Ratio.Area.A1.A.3	MRUS	TCE10000-47	Ratio Area A1 A 3

Depth

Elas.Max	MRUS	TME10000-3	Elas Max
Elas.Min	MRUS	TME10000-4	Elas Min
Elas.SD	MRUS	TME10000-5	Elas SD
Elas.RLBIndex	MRUS	TME10000-6	Elas RLBIndex
STVi.A.Mean	MRUS	TME10000-7	STVi A Mean
STVi.A.Max	MRUS	TME10000-8	STVi A Max
STVi.A.Min	MRUS	TME10000-9	STVi A Min
STVi.A.SD	MRUS	TME10000-10	STVi A SD
A.Max	MRUS	TME10000-11	A Max
A.Mean	MRUS	TME10000-12	A Mean
A.Min	MRUS	TME10000-13	A Min
A.SD	MRUS	TME10000-14	A SD
A1.Max	MRUS	TME10000-15	A1 Max
A1.Mean	MRUS	TME10000-16	A1 Mean
A1.Min	MRUS	TME10000-17	A1 Min
A1.SD	MRUS	TME10000-18	A1 SD
Shell.Max	MRUS	TME10000-19	Shell Max
Shell.Mean	MRUS	TME10000-20	Shell Mean
Shell.Min	MRUS	TME10000-21	Shell Min
Shell.SD	MRUS	TME10000-22	Shell SD
Round.Diam	MRUS	TME10000-23	Round Diam
A.RLBIndex	MRUS	TME10000-24	A RLBIndex
A1.RLBIndex	MRUS	TME10000-25	A1 RLBIndex
Shell.RLBIndex	MRUS	TME10000-26	Shell RLBIndex
A1.Diam	MRUS	TME10000-27	A1 Diam
A.Area	MRUS	TME10000-28	A Area
A1.Area	MRUS	TME10000-29	A1 Area
STVi.Shell.Mean	MRUS	TME10000-34	STVi Shell Mean
STVi.Shell.Max	MRUS	TME10000-35	STVi Shell Max
STVi.Shell.Min	MRUS	TME10000-36	STVi Shell Min
STVi.Shell.SD	MRUS	TME10000-37	STVi Shell SD
STVi.A1.Mean	MRUS	TME10000-38	STVi A1 Mean
STVi.A1.Max	MRUS	TME10000-39	STVi A1 Max
STVi.A1.Min	MRUS	TME10000-40	STVi A1 Min
STVi.A1.SD	MRUS	TME10000-41	STVi A1 SD

A	MRUS	TME10000-58	A
B	MRUS	TME10000-59	B
A1	MRUS	TME10000-60	A1
Shell	MRUS	TME10000-61	Shell
A.Diam	MRUS	TME10000-62	A Diam
B.Diam	MRUS	TME10000-63	B Diam
B.RLBIndex	MRUS	TME10000-66	B RLBIndex
B.Area	MRUS	TME10000-70	B Area
STVi.B.Mean	MRUS	TME10000-73	STVi B Mean
A.1	MRUS	TME10000-102	A 1
Shell.1	MRUS	TME10000-103	Shell 1
A1.1	MRUS	TME10000-104	A1 1
A.Diam.1	MRUS	TME10000-105	A Diam 1
A.Area.1	MRUS	TME10000-106	A Area 1
A1.Area.1	MRUS	TME10000-107	A1 Area 1
A.2	MRUS	TME10000-108	A 2
Shell.2	MRUS	TME10000-109	Shell 2
A1.2	MRUS	TME10000-110	A1 2
A.Diam.2	MRUS	TME10000-111	A Diam 2
A.Area.2	MRUS	TME10000-112	A Area 2
A1.Area.2	MRUS	TME10000-113	A1 Area 2
A.3	MRUS	TME10000-114	A 3
Shell.3	MRUS	TME10000-115	Shell 3
A1.3	MRUS	TME10000-116	A1 3
A.Diam.3	MRUS	TME10000-117	A Diam 3
A.Area.3	MRUS	TME10000-118	A Area 3
A1.Area.3	MRUS	TME10000-119	A1 Area 3

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")

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-			

6	>	CONTAINS	TEXT	(I12101-04,MRUS,"CPT4 Description")			from Info
7	>	CONTAINS	TEXT	EV (121106, DCM, "Comment")			from report 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
SRT	G-037A	Left Ventricular Peak Early Diastolic Tissue Velocity
SRT	G-037B	Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave
SRT	G-037C	LV Peak Diastolic Tissue Velocity During Atrial Systole
SRT	G-037D	Left Ventricular Peak Systolic Tissue Velocity
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
MRUS	C313671	Left Ventricle Mass(Cube-2D)
MRUS	C313673	Left Ventricle Mass(Cube-M)
MRUS	C313672	Left Ventricle Mass Index(Cube-2D)
MRUS	C313674	Left Ventricle Mass Index(Cube-M)
MRUS	C311611	Left Ventricle Mass Index(Cube1987-2D)

CSD	CV	Code Meaning
MRUS	C311644	Left Ventricle Mass Index(Cube1987-M)

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
SRT		Right Ventricular Peak Systolic Pressure
LN		Right Ventricular Anterior Wall Diastolic Thickness
LN		Right Ventricular Anterior Wall Systolic Thickness
MRUS	M12204-01	Right ventricular Major
MRUS		Right ventricular Minor
MRUS		Right ventricular Area at end-diastole
MRUS	M12204-04	Right ventricular Area at end-systole
MRUS		
MRUS	M12204-06	Right Ventricle Ejection Time
MRUS		

CSD	CV	Code Meaning
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	C12205-01	Aortic Root to Left Atrium Ratio
MRUS	C12205-02	Left Atrium Volume index
LN	29469-4	Left Atrium Antero-posterior Systolic Dimension
LN	17977-0	Left Atrium Systolic Area
MRUS	M12205-03	LA LL Diam

B.13. CID (12206) Echocardiography Right Atrium

CSD	CV	Code Meaning
INCLUDE CID 12220 Echocardiography Common Measurements		
LN	18070-3	Right Atrium Systolic Area
MRUS	M12206-01	Right atrium Major
MRUS	M12206-02	Right atrium Minor
MRUS	M12206-03	Right atrium Volume
MRUS	M12206-04	Right atrium Volume index
LN	17988-7	Right Atrium Systolic Area
MRUS	M12206-04	RA AP Diam
MRUS	M12206-05	RA LL Diam

B.14. CID (12207) Echocardiography Mitral Valve

CSD	CV	Code Meaning
SRT	F-32120	Stroke Volume
INCLUDE CID 12220 Echocardiography Common Measurements		
INCLUDE CID 12222 Orifice Flow Properties		
INCLUDE CID 12239 Cardiac Output Properties		
LN	17978-8	Mitral Valve A-Wave Peak Velocity
LN	18037-2	Mitral Valve E-Wave Peak Velocity

CSD	CV	Code Meaning
LN	18038-0	Mitral Valve E to A Ratio
SRT	G-0386	Mitral Valve AT/DT Ratio
LN	18040-6	Mitral Valve E-F Slope by M-Mode
LN	18036-4	Mitral Valve EPSS, E wave
SRT	G-0385	Mitral Valve A-Wave Duration
SRT	G-0387	Mitral Valve Closure to Opening Time
LN	18035-6	Mitral Regurgitation dP/dt derived from Mitral Reg. velocity
MRUS	M12207-01	Mitral valve cusp separate distance
MRUS	M12207-02	Mitral Valve D-E Slope
MRUS	M12207-03	Amplitude of the A wave
MRUS	M12207-04	Amplitude of the E wave
MRUS	M12207-05	Amplitude from D point to E point
MRUS	M12207-06	Mitral Valve A-wave Velocity/E-wave Velocity
MRUS	M12207-07	Mitral Valve E-wave Pressure Gradient
MRUS	M12207-08	Mitral Valve A-wave Pressure Gradient
MRUS	M12207-9	E wave Velocity Time Integral
MRUS	M12207-10	A wave Velocity Time Integral
MRUS	M12207-11	Mitral Valve E-Wave Duration
MRUS	M12207-12	Systolic Velocity of the Mitral Annulus(medial)
MRUS	M12207-13	Early diastolic velocity of the mitral annulus(medial)
MRUS	M12207-14	Late diastolic velocity of the mitral annulus(medial)
MRUS	M12207-15	Early diastolic velocity to Late diastolic velocity Ratio
MRUS	M12207-16	Acceleration Time of Early diastolic velocity
MRUS	M12207-17	Acceleration Rate of Early diastolic velocity
MRUS	M12207-18	Deceleration Time of Early diastolic velocity
MRUS	M12207-19	Deceleration Rate of Early diastolic velocity
MRUS	M12207-20	Systolic Velocity of the Mitral Annulus(lateral)
MRUS	M12207-21	Early diastolic velocity of the mitral annulus(lateral)
MRUS	M12207-22	Late diastolic velocity of the mitral annulus(lateral)
MRUS	M12207-23	Early diastolic velocity to Late diastolic velocity Ratio
MRUS	M12207-24	Acceleration Time of Early diastolic velocity
MRUS	M12207-25	Acceleration Rate of Early diastolic velocity
MRUS	M12207-26	Deceleration Time of Early diastolic velocity
MRUS	M12207-27	Deceleration Rate of Early diastolic velocity

B.17. CID (12210) Echocardiography Pulmonary Artery

CSD	CV	Code Meaning
INCLUDE CID 12220 Echocardiography Common Measurements		
LN	18020-8	Main Pulmonary Artery Diameter
LN	18021-	

CSD	CV	Code Meaning
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

CSD	CV	Code Meaning
MRUS	M12215-04	Inferior Vena Cava Depth
MRUS	M12215-05	Superior Vena Cava Depth

CSD	CV	Code Meaning
LN	20216-8	Deceleration Slope
MRUS	M12222-05	Aliasing Velocity
MRUS	M12222-04	Time
MRUS	M12222-02	Acceleration Slope
MRUS	M12222-06	Flow Radius
MRUS	M12222-01	Angle
MRUS	M12222-08	Presure Gradient at end-Diastole
MRUS	M12222-07	Acceleration Time/Deceleration Time
MRUS	M12222-03	Deceleration Rat
MRUS	M12222-09	Effective Regurgitant Orifice Area
SRT	G-038F	Cardiovascular Orifice Diameter
MRUS	M314218	CAR.TV.Aamedial
MRUS	M314220	CAR.TV.Ealateral
MRUS	C314221	CAR.TV.Ea.Aalateral
MRUS	C314222	CAR.TV.E.Ea
MRUS	M314224	CAR.TV.Aalateral
MRUS	M314224	CAR.TV.Aalateral.Vel
MRUS	M31422601	CAR.TV.Salateral.Vel
MRUS	M314225	CAR.TV.Eamedial
MRUS	M314379	CAR.TV.E.Eamedial
MRUS	M312160	PR.DecT
MRUS	C314378	TV.Ea.Aamedial

B.28. CID (12224) Ultrasound Image Modes

CSD	CV	Code Meaning
SRT	G-03A2	2D mode
SRT	G-0394	M mode
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
INCLUDE CID 12232 Myocardium Mass Methods

B.31. CID (12228) Volume Methods

CSD	CV	Code Meaning
DCM	125204	Area-Length Biplane
DCM	125205	Area-Length Single Plane
DCM	125211	Biplane Ellipse
DCM	125226	Single Plane Ellipse
DCM	125206	Cube Method
DCM	125207	Method of Disks, Biplane

CSD	CV	Code Meaning
DCM	125208	Method of Disks, Single Plane
DCM	125209	Teichholz
MRUS	VM12228-01	Bullet
MRUS	VM12228-02	Method of Disks,Simpson
MRUS	VM12228-03	Gibson

B.32. CID (12229) Area Methods

CSD	CV	Code Meaning
DCM	125210	Area by Pressure Half-Time
DCM	125212	Continuity Equation

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-04FD8	RV Stroke Volume
SRT	F-04FE5	RV Stroke Index
SRT	F-04FA5	RV Cardiac Output
SRT	F-04F84	RV Cardiac Index

B.39. CID (12240) Left Ventricle Area

CSD	CV	Code Meaning
SRT	G-0374	Left Ventricular Systolic Area
SRT	G-0375	Left Ventricular Diastolic Area
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***

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
LVIDs(M)	29438-9,LN,Left Ventricle Internal Systolic Dimension	ImageMode = G-0394,SRT,M Mode;
FS(Cube-M)	18051-3,LN,Left Ventricular Fractional Shortening	ImageMode = G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
FS(Teich-M)	18051-3,LN,Left Ventricular Fractional Shortening	ImageMode = G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
FS(Gibson-M)	18051-3,LN,Left Ventricular Fractional Shortening	ImageMode = G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
FS(Cube-2D)	18051-3,LN,Left Ventricular Fractional Shortening	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
FS(Teich-2D)	18051-3,LN,Left Ventricular Fractional Shortening	ImageMode = G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
FS(Gibson-2D)	18051-3,LN,Left Ventricular Fractional Shortening	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
IVSd(2D)	18154-5,LN,Interventricular Septum Diastolic Thickness	ImageMode = G-03A2,SRT,2D mode;
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

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;

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;
LVIDs Index(M)	M12201-05,MRUS,Left ventricular internal diameter to BSA Ratio	CardiacCyclePoint =109070,SRT,End Systole; ImageMode = G-0394,SRT,M Mode;
LVIDd Index(2D)	M12201-05,MRUS,Left ventricular internal diameter to BSA Ratio	CardiacCyclePoint =F-32011,SRT,End Diastole; ImageMode = G-03A2,SRT,2D mode;
LVIDs Index(2D)	M12201-05,MRUS,Left ventricular internal diameter to BSA Ratio	CardiacCyclePoint =109070,SRT,End Systole; ImageMode = G-03A2,SRT,2D mode;
rd2i	M12222-06,MRUS,Flow Radius	CardiacCyclePoint =F-32011,SRT,End Diastole; ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125207,DCM,Method of Disks, Biplane
rd4i	M12222-06,MRUS,Flow Radius	CardiacCyclePoint =F-32011,SRT,End Diastole; ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125207,DCM,Method of Disks, Biplane
rs2i	M12222-06,MRUS,Flow Radius	CardiacCyclePoint =109070,SRT,End Systole; ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125207,DCM,Method of Disks, Biplane
rs4i	M12222-06,MRUS,Flow Radius	CardiacCyclePoint =109070,SRT,End Systole; ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125207,DCM,Method of Disks, Biplane
LV Area(s)	G-0374,SRT,Left Ventricular Systolic Area	ImageMode = G-03A2,SRT,2D mode;
LVAs apical(SP Ellipse)	G-0374,SRT,Left Ventricular Systolic Area	ImageMode = G-03A2,SRT,2D mode; ImageView = G-0395,SRT,Apical long axis;
LVAs sax MV(Mod.Simpson)	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;

LVAs sax PM	G-0374,SRT,Left Ventricular Systolic Area	ImageMode =G-03A2,SRT,2D mode; ImageView = G-039B,SRT,Parasternal short axis at the Papillary Muscle level;
LVAs(A2C)	G-0374,SRT,Left Ventricular Systolic Area	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125208,DCM,Method of Disks, Single Plane
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)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
EDV(Teich-2D)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
EDV(Gibson-2D)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
EDV(Simp SP-A4C)	18026-5,LN,Left Ventricular End Diastolic Volume	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125208,DCM,Method of Disks, Single Plane
ESV(SP Ellipse)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =125226,DCM,Single Plane Ellipse
ESV(BP Ellipse)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =125211,DCM,Biplane Ellipse
ESV(Bullet)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =VM12228-01,MRUS,Bullet
ESV(Mod.Simpson)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =VM12228-02,MRUS,Method of Disks,Simpson

ESV(Simp SP-A2C)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125208,DCM,Method of Disks, Single Plane
ESV(Simpson BP)	18148-7,LN,Left Ventricular End Systolic Volume	ImageMode =G-03A2,SRT,2D mode; Method =125207,DCM,Method of Disks, Biplane
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,JETQQ EMC /W* nB

LVOT Diam(AVA Vmax)	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode =G-03A2,SRT,2D mode;
LVOT Vmax	11726-7,LN,Peak Velocity	
LVOT Vmax(LVOT VTI)	11726-7,LN,Peak Velocity	
LVOT Vmean	20352-1,LN,Mean Velocity	
LVOT PGmax	20247-3,LN,Peak Gradient	
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	

SV(Simpson BP)	F-32120,SRT,Stroke Volume	ImageMode = G-03A2,SRT,2D mode; Method =125207,DCM,Method of Disks, Biplane
SV2(Simpson BP)	F-32120,SRT,Stroke Volume	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125207,DCM,Method of Disks, Biplane
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
CO(BP Ellipse)	F-32100,SRT,Cardiac Output	ImageMode = G-03A2,SRT,2D mode; Method =125211,DCM,Biplane Ellipse
CO(Bullet)	F-32100,SRT,Cardiac Output	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-01,MRUS,Bullet
CO(Mod.Simpson)	F-32100,SRT,Cardiac Output	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-02,MRUS,Method of Disks,Simpson
CO(A2C)	F-32100,SRT,Cardiac Output	ImageMode = G-03A2,SRT,2D mode; Method =125208,DCM,Method of Disks, Single Plane

CO(Simpson BP)	F-32100,SRT,Cardiac Output	ImageMode = G-03A2,SRT,2D mode; Method =125207,DCM,Method of Disks, Biplane
CO2(Simpson BP)	F-32100,SRT,Cardiac Output	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125207,DCM,Method of Disks, Biplane
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

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
CI(Cube-M)	F-32110,SRT,Cardiac Index	ImageMode = G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
CI(Teich-M)	F-32110,SRT,Cardiac Index	ImageMode = G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
CI(Gibson-M)	F-32110,SRT,Cardiac Index	ImageMode = G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
CI(Cube-2D)	F-32110,SRT,Cardiac Index	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
CI(Teich-2D)	F-32110,SRT,Cardiac Index	ImageMode = G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
CI(Gibson-2D)	F-32110,SRT,Cardiac Index	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
CI(A4C)	F-32110,SRT,Cardiac Index	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125208,DCM,Method of Disks, Single Plane
LVOT SI	F-00078,SRT,Stroke Index	
SI(SP Ellipse)	F-00078,SRT,Stroke Index	ImageMode = G-03A2,SRT,2D mode; Method =125226,DCM,Single Plane Ellipse
SI(BP Ellipse)	F-00078,SRT,Stroke Index	ImageMode = G-03A2,SRT,2D mode; Method =125211,DCM,Biplane Ellipse
SI(Bullet)	F-00078,SRT,Stroke Index	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-01,MRUS,Bullet
SI(Mod.Simpson)	F-00078,SRT,Stroke Index	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-02,MRUS,Method of Disks,Simpson
SI(A2C)	F-00078,SRT,Stroke Index	ImageMode = G-03A2,SRT,2D mode; Method =125208,DCM,Method of Disks, Single Plane

SI(Simpson BP)	F-00078,SRT,Stroke Index	ImageMode = G-03A2,SRT,2D mode; Method =125207,DCM,Method of Disks, Biplane
SI2(Simpson BP)	F-00078,SRT,Stroke Index	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two 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
BAS.ANT	T-32619,SRT,left ventricle basal anterior segment	
BAS.ANT.SEPT	R-10075,SRT,left ventricle basal anteroseptal segment	
BAS.SEPT	R-10076,SRT,left ventricle basal inferoseptal segment	
BAS.INF	T-32615,SRT,left ventricle basal inferior segment	
BAS.POST	R-10079,SRT,left ventricle basal inferolateral segment	
BAS.LAT	R-1007A,SRT,left ventricle basal anterolateral segment	
MID.ANT	T-32617,SRT,left ventricle mid anterior segment	

MID.ANT.SEPT	R-10077,SRT,left ventricle mid anteroseptal segment	
MID.SEPT	R-10078,SRT,left ventricle mid inferoseptal segment	
MID.INF	T-32616,SRT,left ventricle mid inferior segment	
MID.POST	R-1007B,SRT,left ventricle mid inferolateral segment	
MID.LAT	R-1007C,SRT,left ventricle mid anterolateral segment	
AP.ANT	T-32613,SRT,left ventricle apical anterior segment	
AP.SEPT	T-32614,SRT,left ventricle apical septal segment	
AP.INF	T-32618,SRT,left ventricle apical inferior segment	
AP.LAT	T-3261C,SRT,left ventricle apical lateral segment	
APEX	T-32602,SRT,apex of left ventricle	

B.41.2. Right Ventricle Measurements

RVAWs(2D)	18157-8,LN,Right Ventricular Anterior Wall Systolic Thickness	ImageMode = G-03A2,SRT,2D mode;
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-038F,SRT,Cardiovascular Orifice Diameter	ImageMode = G-03A2,SRT,2D mode;
RVOT Diam(M)	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode = G-0394,SRT,M Mode;
RVOT Vmax	11726-7,LN,Peak Velocity	
RVOT Vmax(RVOT VTI)	11726-7,LN,Peak Velocity	
RVOT Vmean	20352-1,LN,Mean Velocity	
RVOT PGmax	20247-3,LN,Peak Gradient	
RVOT PGmax(RVOT VTI)	20247-3,LN,Peak Gradient	
RVOT PGmean	20256-4,LN,Mean Gradient	
RVOT VTI	20354-7,LN,Velocity Time Integral	
RVOT	M12222-01,MRUS,Angle	

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;

AR DecT	20217-6,LN,Deceleration Time	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AV Dec Slope	20216-8,LN,Deceleration Slope	Flow Direction = R-42047,SRT,Antegrade Flow;
AR Dec Slope	20216-8,LN,Deceleration Slope	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AV Acc Slope	M12222-02,MRUS,Acceleration Slope	Flow Direction = R-42047,SRT,Antegrade Flow;
AR Rad	M12222-06,MRUS,Flow Radius	Flow Direction = R-42E61,SRT,Regurgitant Flow; ImageMode = R-409E2, SRT, Doppler Color Flow;
AR Als.Vel	M12222-05,MRUS,Aliasing Velocity	Flow Direction = R-42E61,SRT,Regurgitant Flow; ImageMode = R-409E2, SRT, Doppler Color Flow;
AR Time	M12222-04,MRUS,Time	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AR DcR	M12222-03,MRUS,Deceleration Rate	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AV	M12222-01,MRUS,Angle	Flow Direction = R-42047,SRT,Antegrade Flow;
AR	M12222-01,MRUS,Angle	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AV SV	F-32120,SRT,Stroke Volume	
AV CO	F-32100,SRT,Cardiac Output	
AV CI	F-32110,SRT,Cardiac Index	
AV SI	F-00078,SRT,Stroke Index	
PISA	M12222-09,MRUS, Effective Regurgitant Orifice Area	

B.41.6. Mitral Valve Measurements

MODALITY Label	***DICOM Mapping***	***Optional Modifiers***
MV A Vel	17978-8 LN Mitral Valve A-Wave Peak Velocity	Image Mode = G-0394,SRT,M Mode
MV A Vel	17978-8,LN,Mitral Valve A-Wave Peak Velocity	
MV A Vel(MV A VTI)	17978-8,LN,Mitral Valve A-Wave Peak Velocity	
MV A Vel(MV E/A)	17978-8,LN,Mitral Valve A-Wave Peak Velocity	
MV E Vel	18037-2,LN,Mitral Valve E-Wave Peak Velocity	
MV E Vel(MV E VTI)	18037-2,LN,Mitral Valve E-Wave Peak Velocity	
MV E Vel(MV E/A)	18037-2,LN,Mitral Valve E-Wave Peak Velocity	
MV E/A	18038-0,LN,Mitral Valve E to A Ratio	
MV E/A(MV E/A)	18038-0,LN,Mitral Valve E to A Ratio	
MV AccT/DecT	G-0386,SRT,Mitral Valve AT/DT Ratio	

MV EDV/LDVm	M12207-15,MRUS,Early diastolic velocity to Late diastolic velocity Ratio	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
MV AT.EDVm	M12207-16,MRUS,Acceleration Time of Early diastolic velocity	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
MV AR.EDVm	M12207-17,MRUS,Acceleration Rate of Early diastolic velocity	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
MV DT.EDVm	M12207-18,MRUS,Deceleration Time of Early diastolic velocity	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
MV DR.EDVm	M12207-19,MRUS,Deceleration Rate of Early diastolic velocity	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
MV SV.MAl	M12207-20,MRUS,Systolic Velocity of the Mitral Annulus(lateral)	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
MV EDV.MAl	M12207-21,MRUS,Early diastolic velocity of the mitral annulus(lateral)	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
MV LDV.MAl	M12207-22,MRUS,Late diastolic velocity of the mitral annulus(lateral)	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
MV EDV/LDVl	M12207-23,MRUS,Early diastolic velocity to Late diastolic velocity Ratio	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
MV AT.EDVl	M12207-24,MRUS,Acceleration Time of Early diastolic velocity	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
MV AR.EDVl	M12207-25,MRUS,Acceleration Rate of Early diastolic velocity	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
MV DT.EDVl	M12207-26,MRUS,Deceleration Time of Early diastolic velocity	ImageMode = IM12224-01,MRUS,Tissue Doppler Imaging;
MV DR.EDVl	M12207-27,MRUS,Deceleration Rate of Early diastolic velocity	ImageMode = R-409E2, SRT, Doppler Color Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area

MS Rad	M12207-28,MRUS,Mitral Stenosis Radius	Method = 125216,DCM,Proximal Isovelocity Surface Area
MS AV	M12207-29,MRUS,Mitral Stenosis Aliasing Velocity	Method = 125216,DCM,Proximal Isovelocity Surface Area
MS Vmax	M12207-30,MRUS,Mitral Stenosis Maximum Velocity	
MS Vmax(PISA MS)	M12207-30,MRUS,Mitral Stenosis Maximum Velocity	Method = 125216,DCM,Proximal Isovelocity Surface Area
MS Area	M12207-31,MRUS,Mitral Stenosis Area	Method = 125216,DCM,Proximal Isovelocity Surface Area
MS Pgmax	M12207-32,MRUS,Mitral Stenosis Maximum Pressure Gradient	
MV ACSlope	M12207-33,MRUS,Mitral Valve A-C Slope	
MV AWA/CWA	M12207-34,MRUS,A Wave Amplitude to C Wave Amplitude Ratio	
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;
MR Fraction	G-0390,SRT,Regurgitant Fraction	Flow Direction =R-42E61,SRT,Regurgitant Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area
MV Vmax	11726-7,LN,Peak Velocity	Flow Direction =R-42047,SRT, Antegrade Flow;
MR Vmax	11726-7,LN,Peak Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow; ImageMode = G-03A2,SRT,2D mode;
MV Vmax(MV PHT)	11726-7,LN,Peak Velocity	Flow Direction =R-42047,SRT, Antegrade Flow;
MV Vmax(MV VTI)	11726-7,LN,Peak Velocity	Flow Direction =R-42047,SRT, Antegrade Flow;
MR Vmax(MR VTI)	11726-7,LN,Peak Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
MR Vmax(PISA MR)	11726-7,LN,Peak Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area
MV Vmean	20352-1,LN,Mean Velocity	Flow Direction =R-42047,SRT, Antegrade Flow;
MR Vmean	20352-1,LN,Mean Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
MV Pgmax	20247-3,LN,Peak Gradient	Flow Direction =R-42047,SRT, Antegrade Flow;
MR Pgmax	20247-3,LN,Peak Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;
MV Pgmean	20256-4,LN,Mean Gradient	Flow Direction =R-42047,SRT, Antegrade Flow;
MR Pgmean	20256-4,LN,Mean Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;
MV VTI	20354-7,LN,Velocity Time Integral	Flow Direction =R-42047,SRT, Antegrade Flow;
MR VTI	20354-7,LN,Velocity Time Integral	Flow Direction =R-42E61,SRT,Regurgitant Flow;
MV VTI(MVA VTI)	20354-7,LN,Velocity Time Integral	Flow Direction =R-42047,SRT, Antegrade Flow;

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-	

PV VTI	20354-7,LN,Velocity Time Integral	Flow Direction =R-42047,SRT,Antegrade Flow;
PR VTI	20354-7,LN,Velocity Time Integral	

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;

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;
IVC.Diam.Ped	18006-7,LN,Inferior Vena Cava Diameter	ImageMode =G-03A2,SRT,2D mode;
IVC.Diam.Max(M)	T-87000-33,MRUS,Inferior Vena Cava Diameter Max	ImageMode =G-0394,SRT,M mode
IVC.Diam.Min(M)	T-87000-34,MRUS,Inferior Vena Cava Diameter Min	ImageMode =G-0394,SRT,M mode
IVC.Diam.Max(2D)	T-87000-33,MRUS,Inferior Vena Cava Diameter Max	ImageMode =G-03A2,SRT,2D mode;
IVC.Diam.Min(2D)	T-87000-34,MRUS,Inferior Vena Cava Diameter Min	ImageMode =G-03A2,SRT,2D mode;
IVC.Diam.Max.Depth	T-87000-35,MRUS,Inferior Vena Cava Diameter Max Depth	ImageMode =G-03A2,SRT,2D mode;
IVC.Diam.Min.Depth	T-87000-36,MRUS,Inferior Vena Cava Diameter Min Depth	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 Vel(Expir)	M12215-02,MRUS,Inferior Vena Cava Velocity	RespiratoryCyclePoint=F-20020,SRT, Expiration;
SVC Vel(Insp)	M12215-03,MRUS,Superior Vena Cava Velocity	RespiratoryCyclePoint=F-20010,SRT, Inspiration;
SVC Vel(Expir)	M12215-03,MRUS,Superior Vena Cava Velocity	RespiratoryCyclePoint=F-20020,SRT, Expiration;
SVC.Diam.Max(M)	T-87000-38,MRUS,Superior Vena Cava Diameter Max	ImageMode =G-0394,SRT,M mode
SVC.Diam.Min(M)	T-87000-39,MRUS,Superior Vena Cava Diameter Min	ImageMode =G-0394,SRT,M mode
SVC.Diam.Max(2D)	T-87000-38,MRUS,Superior Vena Cava Diameter Max	ImageMode =G-03A2,SRT,2D mode;
SVC.Diam.Min(2D)	T-87000-39,MRUS,Superior Vena Cava Diameter Min	ImageMode =G-03A2,SRT,2D mode;
SVC.Diam.Max.Depth	T-87000-40,MRUS,Superior Vena Cava Diameter Max Depth	ImageMode =G-03A2,SRT,2D mode;
SVC.Diam.Min.Depth	T-87000-41,MRUS,Superior Vena Cava Diameter Min Depth	ImageMode =G-03A2,SRT,2D mode;
IVC Inspiration PG	C12215-01,MRUS,Inferior Vena Cava Pressure Gradient	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	[redacted]	

IVC-DI(M)	C12215-08,MRUS,Distensibility index of inferior vena cava	ImageMode =G-0394,SRT,M mode
IVC-VI(M)	C12215-09,MRUS,Variability index of inferior vena cava	ImageMode =G-0394,SRT,M 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;
SVC-VI	C12215-13,MRUS,Variability index of inferior vena cava	ImageMode =G-03A2,SRT,2D mode;
SVC-CI(M)	C12215-05,MRUS,Collapsible index of superior vena cava	ImageMode =G-0394,SRT,M mode
SVC-DI(M)	C12215-06,MRUS,Distensibility index of superior vena cava	ImageMode =G-0394,SRT,M 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;
IVC Depth(Insp-M)	M12215-04,MRUS,Inferior Vena Cava Depth	RespiratoryCyclePoint=F-20010,SRT, Inspiration; ImageMode =3(=)] TJETQq365.594.82

VC Depth(Expir-M)	M12215-05,MRUS,Superior Vena Cava Depth	RespiratoryCyclePoint=F-20020,SRT, Inspiration; ImageMode =G-0394,SRT,M 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	
PVein S/D	M12214-05,MRUS,Pulmonary Vein Ratio of S-Wave velocity to D-wave velocity	
PVein SF	M12214-06,MRUS,Pulmonary Vein Systolic fraction	

B.41.13. Cardiac Shunt Study Measurements

MODALITY Label	*DICOM Mapping*	*Optional Modifiers*
Qp/Qs	29462-9,LN,Pulmonary-to-Systemic Shunt Flow Ratio	
Qp-Qs	M12217-01,MRUS,Pulmonary-sub-Systemic Shunt Flow Difference	
PV HR(Qp/Qs)	8867-4,LN,Heart rate	
AV HR(Qp/Qs)	8867-4,LN,Heart rate	
PV SV(Qp/Qs)	F-32120,SRT,Stroke Volume	
PV CO(Qp/Qs)	F-32100,SRT,Cardiac Output	
AV SV(Qp/Qs)	F-32120,SRT,Stroke Volume	
AV CO(Qp/Qs)	F-32100,SRT,Cardiac Output	

B.41.14. Congenital Anomaly of Cardiovascular System Measurements

MODALITY Label	*DICOM Mapping*	*Optional Modifiers*
PDA Diam	M12218-01,MRUS,Patent Ductus Arteriosus Diameter	ImageMode =G-03A2,SRT,2D mode;

PFO Diam	M12218-02,MRUS,Patent Foramen Ovale Diameter	ImageMode =G-03A2,SRT,2D mode;
PDA Vel(d)	M12218-03,MRUS,Patent Ductus Arteriosus Diastolic Velocity	
PDA Vel(s)	M12218-04,MRUS,Patent Ductus Arteriosus Systolic Velocity	
Coarc Pre-Duct	M12218-05,MRUS,Coarctation of Pre-Ductus Velocity	
Coarc Post-Duct	M12218-06,MRUS,Coarctation of Post-Ductus Velocity	
PDA Dias PG	M12218-07,MRUS,Patent Ductus Arteriosus Diastolic Pressure Gradient	
PDA Sys PG	M12218-08,MRUS,Patent Ductus Arteriosus Systolic Pressure Gradient	
Coarc Pre-Duct PG	M12218-09,MRUS,Coarctation of Pre-Ductus Pressure	

MODALITY Label	*DICOM Mapping*	*Optional Modifiers*
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 of6

MODALITY Label	*DICOM Mapping*	*Optional Modifiers*
TV.E.Ea	C314222,MRUS,CAR.TV.E.Ea	RespiratoryCyclePoint= R-42047,SRT, Antegrade Flow
TV.Aalateral	M314224,MRUS,CAR.TV.Aalateral	RespiratoryCyclePoint= R-42047,SRT, Antegrade Flow
TV.Aalateral.Vel	M314224,MRUS,CAR.TV.Aalateral.Vel	RespiratoryCyclePoint= R-42047,SRT, Antegrade Flow
TV.Salateral.Vel	M31422601,MRUS,CAR.TV.Salateral.Vel	RespiratoryCyclePoint= R-42047,SRT, Antegrade Flow
TV.Eamedial	M314225,MRUS,CAR.TV.Eamedial	RespiratoryCyclePoint= R-42047,SRT, Antegrade Flow
TV.E.Eamedial	M314379,MRUS,CAR.TV.E.Eamedial	RespiratoryCyclePoint= R-42047,SRT, Antegrade Flow
PR.DecT	M312160,MRUS,PR.DecT	RespiratoryCyclePoint= R-42047,SRT, Antegrade Flow
TV.Ea.Aamedial	C314378,MRUS,TV.Ea.Aamedial	RespiratoryCyclePoint= R-42047,SRT, Antegrade Flow

C. Appendix : Vascular structured reporting template

This appendix lists the DICOM Structured Report (SR) mappings used in the Vascular 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 Vascular Report mappings follow the DICOM SR Template TID 5100: Vascular Ultrasound Procedure Report, except where noted.

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

C.1. TID (5100) Vascular Ultrasoud Report

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	EV (125100, DCM,			
2	>	HAS OBS CONTEXT	CODE	EV (R-40FB8, SRT,		DCID (12102) Temporal Periods Relating To Procedure or Therapy	
3	>	HAS CONCEPT MOD	INCL UDE	DTID (1204) Language of Content Item and Descendants			
4	>	HAS OBS CONTEXT	INCLUDE	DTID (1001) Observation Context			
5	>	CONTAINS	INCLUDE	DTID (5101) Vascular Patient Characteristics			
6	>	CONTAINS	CONTAINER	EV (111028, DCM,			
7	>>	CONTAINS	IMAGE	No purpose of reference			
8	>	CONTAINS	INCLUDE	DTID (5102) Vascular Procedure Summary Section			

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-40501, S $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	

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- Of Upper E $SectionLaterality = EV (G- $Anatomy = DCID (12108) Upper Extremity Veins	
23	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- $SectionLaterality = EV (G-A10 $Anatomy = DCID (12111) Abdominal Arteries (lateral)	

28	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	$SectionScope = DT (T- $SectionLaterality = EV (G-A103, $Anatomy = DCID

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
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 Orga		(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,		Units = DCID (7456) Units of	

7	>	CONTAINS	TEXT	EV (121106, DCM, "Comment")			From report interface Comment
8	>	CONTAINS	TEXT	(I12101-05,MRUS,"Prompt")			From report interface Prompt
9	>	CONTAINS	TEXT	(121071,DCM,"Findings")			From report interface Findings
10	>	CONTAINS	CONTAINER	(T-45100, SNM3, Common carotid artery)			
11	>>	CONTAINS	CONTAINER	(FG3495-01, MRUS, Plaque Description)			
12	>>>	CONTAINS	TEXT	(G-A100,SNM3,Right)			
13	>>>	CONTAINS	TEXT	(G-A101,SNM3,Left)			
14	>>	CONTAINS	CONTAINER	(FG3495-02, MRUS, Plaque Area)			
15	>>>	CONTAINS	TEXT	(G-A100,SNM3,Right)			
16	>>>	CONTAINS	TEXT	(G-A101,SNM3,Left)			
17	>	CONTAINS	CONTAINER	(T-45160,SRT,Carotid Bifurcation)			
18	>>	CONTAINS	CONTAINER	(FG3495-01, MRUS, Plaque Description)			

28	>>	CONTAINS	CONTAINER	(FG3495-02, MRUS, Plaque Area)			
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	EV (G-C0E3, SRT,		$SectionScope	

3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality	
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 (5103_12111) 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	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT, ""Laterality")		$SectionLaterality	
4	>	HAS CONCEPT MOD	CODE	DTID (5104)Vascular Ultrasound Measurement Group		$AnatomyGroup = 12110_2; $SectionLaterality=$SectionLaterality	

C.8. TID (5103_ 12114) Vascular Ultrasound Section

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT,		$SectionScope	
3	>	CONTAINS	NUM	EV (G-C171, SRT, "Laterality")		$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (5104) Vascular Ultrasound Measurement Group		$AnatomyGroup = 12114; $Modifier = 12116	
5	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = "M12119-12,MRUS,Splenic V Diam"	

C.9. TID (5103-12116) 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-C171, SRT,)		$SectionLaterality	
3	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement=00001_21; $Laterality=$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement=00001_25; $Laterality=$SectionLaterality; $Modifier = 12116	
5	>	CONTAINS	INCLUDE	DTID (5104) Vascular Ultrasound Measurement Group		$AnatomyGroup=00001_22; $SectionLaterality=$SectionLaterality; $Modifier = 12116	

C.10. 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			

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, emporal period related to		DT (G-A491, SRT, "Post-prandial")	
6	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement=12119; $Laterality=$SectionLaterality; $Prefix=$AnatomyGroup; $StenType=$StenType; $Modifier=$Modifier	

C.11. 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
MRUS	A12104-13	Carotid Graft 1 Anastomosis Max
MRUS	A12104-14	Carotid Graft 1 Anastomosis Post
MRUS	A12104-15	Carotid Graft 1 Native Outflow
MRUS	A12104-16	Carotid Graft 2 Native Inflow
MRUS	A12104-17	Carotid Graft 2 Anastomosis Pre
MRUS	A12104-18	Carotid Graft 2 Anastomosis Max
MRUS	A12104-19	Carotid Graft 2 Anastomosis Post
MRUS	A12104-20	Carotid Graft 2 Native Outflow
MRUS	A12104-21	Carotid Graft 3 Native Inflow
MRUS	A12104-22	Carotid Graft 3 Anastomosis Pre
MRUS	A12104-23	Carotid Graft 3 Anastomosis Max
MRUS	A12104-24	Carotid Graft 3 Anastomosis Post
MRUS	A12104-25	Carotid Graft 3 Native Outflow
MRUS	A12104-26	Common Carotid Arterial Aneurysm
MRUS	A12104-27	Bulbillate Aneurysm
MRUS	A12104-28	Carotid Bifurcation Aneurysm
MRUS	A12104-29	Internal Carotid Arterial Aneurysm
MRUS	A12104-30	External Carotid Arterial Aneurysm
MRUS	A12104-31	Vertebral Arterial Aneurysm
MRUS	A12104-32	Subclavian Arterial Aneurysm
MRUS	A12104-33	Common Carotid Artery Stenosis
MRUS	A12104-34	Bulbillate Stenosis
MRUS	A12104-35	Carotid Bifurcation Stenosis
MRUS	A12104-36	Internal Carotid Artery Stenosis
MRUS	A12104-37	External Carotid Artery Stenosis
MRUS	A12104-38	Vertebral Artery Stenosis
MRUS	A12104-39	Subclavian Artery Stenosis
MRUS	A12104-40	Carotid Stenosis 1
MRUS	A12104-41	Carotid Stenosis 2
MRUS	A12104-42	Carotid Stenosis 3
MRUS	A12104-43	Carotid Stenosis 4
MRUS	A12104-44	Common Carotid Artery Intima Media

CSD	CV	Code Meaning
		Thickness
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
MRUS	M31393701	Carotid.Graft.1.Anst.Prox
MRUS	M31393801	Carotid.Graft.1.Anst.Dist
MRUS	M31393901	Carotid.Graft.2.Anst.Prox
MRUS	M31394001	Carotid.Graft.2.Anst.Dist
MRUS	M31394101	Carotid.Graft.3.Anst.Prox
MRUS	M31394201	Carotid.Graft.3.Anst.Dist
MRUS	M31394301	Carotid.Pre.Stent.1
MRUS	M31394401	Carotid.Pre.Stent.2
MRUS	M31394501	Carotid.Pre.Stent.3
MRUS	M31394601	Carotid.Post.Stent.1
MRUS	M31394701	Carotid.Post.Stent.2
MRUS	M31394801	Carotid.Post.Stent.3
MRUS	M31394906	Carotid.Graft.1.2D
MRUS	M31395106	Carotid.Graft.2.2D
MRUS	M31395306	Carotid.Graft.3.2D
MRUS	M31395506	UE.A.Graft.1.2D
MRUS	M31395706	UE.A.Graft.2.2D
MRUS	M31395906	UE.A.Graft.3.2D
MRUS	M31403406	LE.A.Graft.1.2D
MRUS	M31403606	LE.A.Graft.2.2D
MRUS	M31403806	LE.A.Graft.3.2D

C.12. 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
SRT	T-45530	Anterior Communicating Artery

CSD	CV	Code Meaning
SRT	R-102BD	Terminal internal carotid artery
SRT	T-45400	Ophthalmic Artery
SRT	R-10253	Posterior Cerebral Artery P1 Segment
SRT	R-10255	Posterior Cerebral Artery P2 Segment
MRUS	A12105-1	Anterior Cerebral Artery A1
MRUS	A12105-2	Internal Carotid Artery Siphon
SRT	R-10251	Middle Cerebral Artery M2 Segment
SRT	R-1024F	Middle Cerebral Artery M1 Segment
MRUS	C31354425	Anterior Cerebral Artery A2
MRUS	M31396101	Temporal.A.IMT
MRUS	M31396201	Temp.A.Frontal.IMT
MRUS	M31396301	Temp.A.Parietal.IMT
MRUS	M31396401	Facial.A.IMT
MRUS	M31396501	Axill.A.IMT
MRUS	M31399701	Temporal.A
MRUS	M31399801	Temp.A.Frontal
MRUS	M31399901	Temp.A.Parietal
MRUS	M31400001	Facial.A
MRUS	M31402607	Temporal.A.Stenosis.1.2D
MRUS	M31402807	Temporal.A.Stenosis.2.2D

C.13. CID (12106) Intracranial Cerebral Vessels (unilateral)

CSD	CV	Code Meaning
SRT	T-45800	Basilar Artery
SRT	T-45530	Anterior Communicating Artery

MRUS V12106-01

CSD	CV	Code Meaning
SRT	T-47200	Ulnar Artery
MRUS	A12107-1	Mammary Artery
MRUS	A12107-2	Upper External Arterial Graft 1 Native Inflow
MRUS	A12107-3	Upper External Arterial Graft 1 Anastomosis
MRUS	A12107-4	Upper External Arterial Graft 1 Graft
MRUS	A12107-5	Upper External Arterial Graft 1 Native Outflow
MRUS	A12107-6	Upper External Arterial Graft 2 Native Inflow
MRUS	A12107-7	Upper External Arterial Graft 2 Anastomosis
MRUS	A12107-8	Upper External Arterial Graft 2 Graft
MRUS	A12107-9	Upper External Arterial Graft 2 Native Outflow
MRUS	A12107-10	Upper External Arterial Graft 3 Native Inflow
MRUS	A12107-11	Upper External Arterial Graft 3 Anastomosis
MRUS	A12107-12	Upper External Arterial Graft 3 Graft
MRUS	A12107-13	Upper External Arterial Graft 3 Native Outflow
MRUS	A12107-14	Upper External Arterial Stent 1
MRUS	A12107-15	Upper External Arterial Stent 2
MRUS	A12107-16	Upper External Arterial Stent 3
MRUS	A12107-17	Mammary Arterial Aneurysm
MRUS	A12107-18	Axillary Artery 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

CSD	CV	Code Meaning
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
MRUS	M31434101	Upper External Arterial Pre-Stent 1
MRUS	M31434201	Upper External Arterial Pre-Stent 2
MRUS	M31434301	Upper External Arterial Pre-Stent 3
MRUS	M31434401	Upper External Arterial Post-Stent 1
MRUS	M31434501	Upper External Arterial Post-Stent 2
MRUS	M31434601	Upper External Arterial Post-Stent 3
MRUS	A12107-25	Axillary Artery Stenosis
MRUS	M31400101	UE.A.Graft.1.Anst.Prox
MRUS	M31400201	UE.A.Graft.1.Anst.Dist
MRUS	M31400301	UE.A.Graft.2.Anst.Prox
MRUS	M31400401	UE.A.Graft.2.Anst.Dist
MRUS	M31400501	UE.A.Graft.3.Anst.Prox
MRUS	M31400601	UE.A.Graft.3.Anst.Dist
MRUS	M31420504	UE.A.Stent.1.doppler
MRUS	M31420704	UE.A.Stent.2.doppler
MRUS	M31420904	UE.A.Stent.3.doppler
MRUS	M31401701	RUDI.Inflow.Artery
MRUS	M31401801	RUDI.Arterial.Anast
MRUS	M31401901	RUDI.Graft
MRUS	M31402001	RUDI.Venous.Anast
MRUS	M31402101	DRIL.Native.Inflow
MRUS	M31402201	DRIL.Prox.Anast
MRUS	M31402301	DRIL.Graft
MRUS	M31402401	DRIL.Dist.Anast
MRUS	M31402501	DRIL.Native.Outflow
MRUS	M31433701	RUDI.Graft1
MRUS	M31433601	RUDI.Inflow.Artery1
MRUS	M31433901	DRIL.Graft1
MRUS	M31433801	DRIL.Native.Inflow1

CSD	CV	Code Meaning
MRUS	M31434001	DRIL.Native.Outflow1

C.15. CID (SELFCID-2) Upper Extremity Arteries(unilateral)

CSD	CV	Code Meaning
SRT	T-46010	Innominate Artery

C.16. 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
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	Basilic Vein and Axillary Vein Junction
MRUS	V12108-6	Upper Arm Basilic Vein
MRUS	V12108-7	Basilic Anterior-Cubital Vein
MRUS	V12108-8	Forearm Basilic Vein
MRUS	V12108-9	Digital Vein
MRUS	V12108-10	Arteriovenous Fistula-Inflow Artery
MRUS	V12108-11	Arteriovenous Fistula-Arterial Anastomosis
MRUS	V12108-12	Arteriovenous Fistula-Outflow Vein Level 1
MRUS	V12108-13	Arteriovenous Fistula-Outflow Vein Level 2
MRUS	V12108-14	Arteriovenous Fistula-Outflow Vein Level 3
MRUS	V12108-15	Arteriovenous Fistula-Outflow Vein Level 4
MRUS	V12108-16	Arteriovenous Fistula-Outflow Vein Level 5
MRUS	V12108-17	Arteriovenous Fistula-Outflow Vein Level 6

CSD	CV	Code Meaning
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 6
MRUS	V12108-34	Volar Vein
MRUS	V12108-35	Median Cubital Vein
MRUS	V12108-40	Arteriovenous Fistula-Outflow Vein Level 7
MRUS	V12108-41	Arteriovenous Graft-Outflow Vein Level 7
MRUS	M31396801	AVF.Outflow.Vein.Level2.1.2D
MRUS	M31396901	AVF.Outflow.Vein.Level2.2.2D
MRUS	M31397001	AVF.Outflow.Vein.Level2.3.2D
MRUS	M31397101	AVF.Outflow.Vein.Level2.4.2D
MRUS	M31397201	AVF.Outflow.Vein.Level2.5.2D
MRUS	M31397301	AVF.Outflow.Vein.Level2.6.2D
MRUS	M31431901	AVF.Outflow.Vein.Level3.1.2D
MRUS	M31432001	AVF.Outflow.Vein.Level3.2.2D
MRUS	M31432101	AVF.Outflow.Vein.Level3.3.2D
MRUS	M31432201	AVF.Outflow.Vein.Level3.4.2D
MRUS	M31432301	AVF.Outflow.Vein.Level3.5.2D
MRUS	M31432401	AVF.Outflow.Vein.Level3.6.2D
MRUS	M31396601	AVF.Inflow.Artery2.2D
MRUS	M31397401	AVF.Outflow.Vein2.2D

CSD	CV	Code Meaning
MRUS	M31432501	AVF.Outflow.Vein3.2D
MRUS	M31397901	AV.Graft.Outflow.Vein.Level2.1.2D
MRUS	M31398001	AV.Graft.Outflow.Vein.Level2.2.2D
MRUS	M31398101	AV.Graft.Outflow.Vein.Level2.3.2D
MRUS	M31398201	AV.Graft.Outflow.Vein.Level2.4.2D
MRUS	M31398301	AV.Graft.Outflow.Vein.Level2.5.2D
MRUS	M31398401	AV.Graft.Outflow.Vein.Level2.6.2D
MRUS	M31432701	AV.Graft.Outflow.Vein.Level3.1.2D
MRUS	M31432801	AV.Graft.Outflow.Vein.Level3.2.2D

CSD	CV	Code Meaning
MRUS	M31406003	AV.Graft.Aneurysm2.2.2D
MRUS	M31406203	AV.Graft.Aneurysm2.3.2D
MRUS	M31407004	AV.Graft.Stenosis.1
MRUS	M31407204	AV.Graft.Stenosis.2
MRUS	M31407404	AV.Graft.Stenosis.3

C.17. CID (12109) Lower Extremity Arteries

CSD	CV	Code Meaning
MRUS	V12109-01	TP Trunk Artery
MRUS	A12109-60	Lower Artery
MRUS	A12109-25	Common Femoral Arterial Aneurysm
MRUS	A12109-26	Profunda Femoral Arterial Aneurysm
MRUS	A12109-28	Popliteal Arterial Aneurysm
MRUS	A12109-29	Tibial Peroneal Trunk Arterial Aneurysm
MRUS	A12109-30	Anterior Tibial Arterial Aneurysm
MRUS	A12109-31	Peroneal Arterial Aneurysm
MRUS	A12109-32	Posterior Tibial Arterial Aneurysm
MRUS	A12109-33	Dorsalis Pedis Arterial Aneurysm
MRUS	A12109-51	Peroneal Artery Stenosis
MRUS	A12109-14	Lower External Arterial Stent 1
MRUS	A12109-15	Lower External Arterial Stent 2
MRUS	A12109-16	Lower External Arterial Stent 3
MRUS	M31434701	Lower External Arterial Pre-Stent 1
MRUS	M31434801	Lower External Arterial Pre-Stent 2
MRUS	M31434901	Lower External Arterial Pre-Stent 3
MRUS	M31435001	Lower External Arterial Post-Stent 1
MRUS	M31435101	Lower External Arterial Post-Stent 2
MRUS	M31435201	Lower External Arterial Post-Stent 3
MRUS	A12109-45	Common Femoral Artery Stenosis
MRUS	A12109-46	Profunda Femoral Artery Stenosis
MRUS	A12109-48	Popliteal Artery Stenosis
MRUS	A12109-49	Tibial Peroneal Trunk Artery Stenosis
SRT	T-47500	Popliteal Artery

CSD	**CV**	**Code Meaning**
SRT	T-47630	Peroneal Artery
SRT	T-47440	Profunda Femoris Artery
SRT	T-47400	Common Femoral Artery
MRUS	A12109-1	Tibial Peroneal Trunk Artery
MRUS	A12109-27	Superficial Femoral Arterial Aneurysm
MRUS	A12109-23	Common Iliac Arterial Aneurysm
MRUS	A12109-24	External Iliac Arterial Aneurysm
MRUS	A12109-47	Superficial Femoral Artery Stenosis
SRT	T-46710	Common Iliac Artery
SRT	T-47700	Anterior Tibial Artery
SRT	T-47741	Dorsalis Pedis Artery
SRT	T-46910	External Iliac Artery
SRT	T-46740	Internal Iliac Artery
MRUS	A12109-58	Internal Iliac Arterial Aneurysm
MRUS	A12109-59	Internal Iliac Artery Stenosis
SRT	T-47600	Posterior Tibial Artery
SRT	T-47403	Superficial Femoral Artery
MRUS	A12109-2	Lower External Arterial Graft 1 Native Inflow
MRUS	A12109-3	Lower External Arterial Graft 1 Anastomosis
MRUS	A12109-4	Lower External Arterial Graft 1 Graft
MRUS	A12109-5	Lower External Arterial Graft 1 Native 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

CSD	**CV**	**Code Meaning**
MRUS	A12109-13	Lower External Arterial Graft 3 Native Outflow
MRUS	A12109-17	Lower External Arterial Finding 1
MRUS	A12109-18	Lower External Arterial Finding 2
MRUS	A12109-19	Lower External Arterial Finding 3
MRUS	A12109-20	Lower External Arterial Finding 4
MRUS	A12109-21	Lower External Arterial Finding 5
MRUS	A12109-22	Lower External Arterial Finding 6
MRUS	A12109-34	Lower External Arterial Graft 1 Anastomosis Pre
MRUS	A12109-35	Lower External Arterial Graft 1 Anastomosis 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	A12109-50	Anterior Tibial 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	M31400701	LE.A.Graft.1.Anst.Prox

CSD	CV	Code Meaning
MRUS	M31400801	LE.A.Graft.1.Anst.Dist
MRUS	M31400901	LE.A.Graft.2.Anst.Prox
MRUS	M31401001	LE.A.Graft.2.Anst.Dist
MRUS	M31401101	LE.A.Graft.3.Anst.Prox
MRUS	M31401201	LE.A.Graft.3.Anst.Dist
MRUS	M31421104	LE.A.Stent.1.doppler
MRUS	M31421304	LE.A.Stent.2.doppler
MRUS	M31421504	LE.A.Stent.3.doppler

C.18. CID (12109_1) Lower Extremity Arteries

CSD	CV	Code Meaning
MRUS	A12105-4	Ankle Systolic Pressure
MRUS	A12105-5	Brachial Systolic Pressure
LN	8581-1	Tibial/brachial index

C.19. CID (12110) Lower Extremity Veins

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
SRT	T-48940	Internal iliac vein
SRT	T-49410	Femoral vein
MRUS	V12110-01	TP Trunk Vein
SRT	R-10259	Great Saphenous Vein of Thigh

CSD	CV	Code Meaning
SRT	R-1025A	Great Saphenous Vein of Calf
SRT	T-D930A	Saphenofemoral Junction
SRT	T-4941A	Saphenopopliteal junction
MRUS	V12110-02	Great Saphenous Vein Knee
MRUS	V12110-03	Small Saphenous Vein Thigh Extension
MRUS	V12110-04	AASV
MRUS	V12110-05	PASV
MRUS	V12110-06	Prox Calf Perf
MRUS	V12110-07	Mid Calf Perf
MRUS	V12110-08	Dist Calf Perf
MRUS	T-49660	Profunda Femoris Vein(PW)
SRT	T-4942C	Thigh perforator
MRUS	V12110-01	Tibial Peroneal Trunk Vein

C.20. CID (12110_2) Lower Extremity Veins

CSD	CV	Code Meaning
MRUS	M31428104	GSV.Ankle.2D
MRUS	M31427904	Cephalic.V.Wrist.2D
MRUS	M31375904	Ant.Calf.Perf.2D
MRUS	M31377104	Post.Calf.Perf
MRUS	M31377304	Med.Calf.Perf
MRUS	M31377504	Lat.Calf.Perf
MRUS	M31377704	Fem.Canal.Perf
MRUS	V12110-06	Prox Calf Perf
MRUS	V12110	

CSD	CV	Code Meaning
SRT	T-46460	Splenic Artery
SRT	T-46510	Superior Mesenteric Artery

C.23. CID (12115) Renal Vessels

CSD	CV	Code Meaning
SRT	T-46600	

CSD	CV	Code Meaning
MRUS	M31427401	BPG Main Graft
MRUS	M31427501	BPG Graft Limb
MRUS	M31427601	BPG Dist Anast
MRUS	M31420301	BPG.Dist.Anast.Diam
MRUS	M31420101	BPG.Main.Graft.Diam
MRUS	M31410007	renal artery stenosis 1
MRUS	M31410207	renal artery stenosis 2
MRUS	M31410407	renal artery stenosis 3
MRUS	M31429501	Renal.A1.Hilum
MRUS	M31429601	Renal.A2.Hilum
MRUS	MT-45210-05	Testis Vein
MRUS	MT-45210-06	Testis Artery
MRUS	MT-45210-07	Epididymis Vein
MRUS	MT-45210-08	Epididymis Artery
MRUS	MT-45210-09	Testis Vein Valsalva
SRT	T-46640	Accessory Renal Artery
SRT	T-46668	Perforating Artery of Kidney
SRT	T-4667C	Lobar Artery
SRT	G-035C	Hilar Artery
MRUS	A12115-24	Artery Anast Transplant 1
MRUS	A12115-6	Renal A Transplant 1
MRUS	A12115-7	Renal A1 Transplant 1
MRUS	A12115-8	Renal A2 Transplant 1
MRUS	A12115-9	Hilum Transplant 1
MRUS	A12115-10	Interlobar A Transplant 1
MRUS	A12115-11	Arcuate A Transplant 1
MRUS	A12115-12	Segmental A Transplant 1
MRUS	V12115-02	Renal Vein 1 Transplant 1
MRUS	V12115-03	Renal Vein 2 Transplant 1
MRUS	M31431701	Renal.Vein.Transplant.1
MRUS	M31431801	Renal.Vein.Transplant.2
MRUS	A12115-13	Renal A Transplant 2
MRUS	A12115-14	Renal A1 Transplant 2
MRUS	A12115-15	Renal A2 Transplant 2

CSD	CV	Code Meaning
MRUS	A12115-16	Hilum Transplant 2
MRUS	A12115-17	Interlobar A Transplant 2
MRUS	A12115-18	Arcuate A Transplant 2
MRUS	A12115-19	Segmental A Transplant 2
MRUS	V12115-04	Renal Vein 1 Transplant 2
MRUS	V12115-05	Renal Vein 2 Transplant 2
MRUS	M31371304	ABD Aorta Sten
MRUS	M31371504	ABD Mesenteric A Sten
MRUS	M31429707	renal artery stenosis
MRUS	M31410007	renal artery stenosis 1
MRUS	M31410207	renal artery stenosis 2
MRUS	M31410407	renal artery stenosis 3
MRUS	M31414001	Arterial Post SMA PS Vel
MRUS	M31414101	Arterial Post CA PS Vel
MRUS	M31414201	Arterial Post Aorta PS Vel
MRUS	M31429907	Aortic.Sten.1.2D
MRUS	M31430107	Aortic.Sten.2.2D
MRUS	M31430916	Aortic Stenosis 1
MRUS	M31430904	Aortic Stenosis 1
MRUS	M31431116	Aortic Stenosis 2
MRUS	M31430107	Aortic Stenosis 2

C.24. 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°

CSD	CV	Code Meaning
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
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
MRUS	12116-12	InfraRenal
MRUS	12116-13	Iliac

C.25. 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

CSD	CV	Code Meaning
SRT	G-A101	Left
MRUS	12117-3	R Ant
MRUS	12117-4	R Post
SRT	G-A332	main

C.26. 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
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

CSD	CV	Code Meaning
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
MRUS	A12120-41	Aortic Bypass Graft Anast
MRUS	A12120-42	Aortic Bypass Graft Graft
MRUS	A12120-43	ABD Stenosis 1
MRUS	A12120-44	ABD Stenosis 2
MRUS	A12120-45	ABD Stenosis 3
MRUS	A12120-46	ABD Stenosis 4
MRUS	M31414101	Arterial Post CA
MRUS	M31413901	Residual Aneurysm Sac Length 2D Dist
MRUS	A12120-3	EVAR Inflow
MRUS	A12120-32	Proper Hepatic A
MRUS	A12120-33	Proper Hepatic Artery
MRUS	M31414704	Mesenteric Stenosis 1
MRUS	M31414904	Mesenteric Stenosis 2
MRUS	M31415104	Mesenteric Stenosis 3
MRUS	M31419507	Iliac Stenosis 1
MRUS	M31419508	Iliac Stenosis 2
MRUS	M31004101	SMV.2D
MRUS	M31004201	IMV.2D
MRUS	M31438604	Iliac.Stenosis
MRUS	M31439001	Splenic.V.2D

CSD	CV	Code Meaning
SRT	T-46960	Lumbar Artery
SRT	T-46710	Common Iliac Artery
SRT	T-46423	Right Branch of Hepatic Artery
SRT	T-46427	Left Branch of Hepatic Artery

C.27. CID (00001_21) Vascular Ultrasound Measurement

CSD	CV	Code Meaning
MRUS	M314170	CA.Supine.Inspir.Diam
MRUS	M314175	CA.Supine.Expir.Diam
MRUS	M314179	CA.Upright.Inspir.Diam
MRUS	M314184	CA.Upright.Expir.Diam
MRUS	M31397801	AV Graft-Venous Anast
MRUS	M31396701	AVF-Anast Diameter
MRUS	M31397601	AV.Graft.Arterial.Anast2.2D.Dist
MRUS	M31399501	DRIL.Dist.Anast.2D.Dist
MRUS	M31399301	DRIL.Prox.Anast.2D.Dist
MRUS	M31398901	RUDI.Arterial.Anast.2D.Dist
MRUS	M31399101	RUDI.Venous.Anast.2D.Dist

C.28. CID (00001_22) Vascular Ultrasound Measurement

CSD	CV	Code Meaning
MRUS	M314170	CA.Supine.Inspir
MRUS	M314175	CA.Supine.Expir
MRUS	M314179	CA.Upright.Inspir
MRUS	M314184	CA.Upright.Expir

C.29. CID (00001_25) Vascular Ultrasound Measurement

CSD	CV	Code Meaning
MRUS	M314170	CA.Supine.Inspir.Diam
MRUS	M314172	CA.Supine.Inspir.alpha
MRUS	C314173	CA.Supine.DA

CSD	CV	Code Meaning
MRUS	M314175	CA.Supine.Expir.Diam
MRUS	M314177	CA.Supine.Expir.beta
MRUS	M314179	CA.Upright.Inspir.Diam
MRUS	M314181	CA.Upright.Inspir.alpha
MRUS	C314182	CA.Upright.DA
MRUS	M314184	CA.Upright.Expir.Diam
MRUS	M314186	CA.Upright.Expir.beta

C.30. Mapping between Modality measurements and DICOM Concepts.

C.30.1. Vascular Measurements

MODALITY Label	*DICOM Mapping*	*Contain Content*
<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-	

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	*DICOM Mapping*	*Contain Content*
<Vasculature Anatomic Location> inner diameter	M12119-17,MRUS,inner diameter	Cephalic V Depth Basilic V Depth Axill. V Depth Brachial V Depth Ulnar V Depth Radial V Depth C.Iliac V Depth Ex.Iliac V Depth IIV Depth Femoral V Depth CFV Depth DFV Depth SFV Depth Pop V Depth TP Trunk V Depth Sural V Depth Soleal V Depth Peroneal V Depth A.Tib. V Depth P.Tib. V Depth Saph V Depth SSV Depth
<Vasculature Anatomic Location> Depth	G-D785,SRT,Depth	Cephalic V Diam Basilic V Diam Axill. V Diam Brachial V Diam Ulnar V Diam Radial V Diam C.Iliac V Diam Ex.Iliac V Diam IIV Diam Femoral V Diam CFV Diam DFV Diam SFV Diam Pop V Diam TP Trunk V Diam Sural V Diam Soleal V Diam Peroneal V Diam A.Tib. V Diam P.Tib. V Diam Saph V Diam
EDV	11653-3,LN,End Diastolic Velocity	

MODALITY Label	*DICOM Mapping*	*Contain Content*
MDV	11665-7 ,LN,Minimum Diastolic Velocity	
TAMV	20352-1,LN,Time averaged mean velocity	
TAPV	11692-1,LN ,Time averaged peak velocity	
PSV	11726-7,LN,Peak Systolic Velocity	
PV	11726-7,LN,Peak Velocity	
PI	12008-9,LN,Pulsatility Index	
RI	12023-8,LN,Resistivity Index	
S/D	12144-2,LN,Systolic to Diastolic Velocity Ratio	

D/S

MODALITY Label	*DICOM Mapping*	*Contain Content*
Diam	M12119-17,MRUS,inner diameter	
CID.ABD.Aorta.Stenosis.D	C12119-1,MRUS,Aorta Sten D	
CID.ABD.Aorta.Stenosis.A	C12119-2,MRUS,Aorta Sten A	
ABD.Splenic.V.Diam	M12119-12,MRUS,Splenic V Diam	
ABD.Splenic.A.Diam	M12119-13,MRUS,Splenic A Diam	
F	G-A119,SRT,Distal	
M	G-A188,SRT,Mid-longitudinal	
U	G-036A,SRT,Origin of vessel	
N	G-A118,SRT,Proximal	
E	R-40775,SRT,None	

C.30.2. Extracranial Arteries

MODALITY Label	*DICOM Mapping*
Bulb	T-45170,SRT,Carotid Bulb
CCA	T-45100,SRT,Common Carotid Artery
ECA	T-45200,SRT,External Carotid Artery
ICA	T-45300,SRT,Internal Carotid Artery
Subclav A	T-46100,SRT,Subclavian Artery
Vert A	T-45700,SRT,Vertebral Artery
Carotid.Bifurcation	T-45160,SRT,Carotid Bifurcation
Carotid.Bifurcation	T-45160,SRT,Carotid Bifurcation
Terminal.Vert.A	A12104-1,MRUS,Terminal Vertebral Artery
Carotid Graft 1 Anastomosis	A12104-2,MRUS,Carotid Graft 1 Anastomosis
Carotid.Graft.1.Graft	A12104-3,MRUS,Carotid Graft 1 Graft
Carotid Graft 2 Anastomosis	A12104-4,MRUS,Carotid Graft 2 Anastomosis
Carotid.Graft.2.Graft	A12104-5,MRUS,Carotid Graft 2 Graft
Carotid Graft 3 Anastomosis	A12104-6,MRUS,Carotid Graft 3 Anastomosis
Carotid.Graft.3.Graft	A12104-7,MRUS,Carotid Graft 3 Graft
Carotid.Stent.1	A12104-8,MRUS,Carotid Stent 1
Carotid.Stent.1	A12104-8,MRUS,Carotid Stent 1
Carotid.Stent.2	A12104-9,MRUS,Carotid Stent 2
Carotid.Stent.2	A12104-9,MRUS,Carotid Stent 2
Carotid.Stent.3	A12104-10,MRUS,Carotid Stent 3
Carotid.Stent.3	A12104-10,MRUS,Carotid Stent 3

Carotid.Graft.1.Native.Inflow	A12104-11,MRUS,Carotid Graft 1 Native Inflow
Carotid.Graft.1.Anst.Pre	A12104-12,MRUS,Carotid Graft 1 Anastomosis Pre
Carotid.Graft.1.Anst.Max	A12104-13,MRUS,Carotid Graft 1 Anastomosis Max
Carotid.Graft.1.Anst.Post	A12104-14,MRUS,Carotid Graft 1 Anastomosis Post
Carotid.Graft.1.Native.Outflow	A12104-15,MRUS,Carotid Graft 1 Native Outflow
Carotid.Graft.2.Native.Inflow	A12104-16,MRUS,Carotid Graft 2 Native Inflow
Carotid.Graft.2.Anst.Pre	A12104-17,MRUS,Carotid Graft 2 Anastomosis Pre
Carotid.Graft.2.Anst.Max	A12104-18,MRUS,Carotid Graft 2 Anastomosis Max
Carotid.Graft.2.Anst.Post	A12104-19,MRUS,Carotid Graft 2 Anastomosis Post
Carotid.Graft.2.Native.Outflow	A12104-20,MRUS,Carotid Graft 2 Native Outflow
Carotid.Graft.3.Native.Inflow	A12104-21,MRUS,Carotid Graft 3 Native Inflow
Carotid.Graft.3.Anst.Pre	A12104-22,MRUS,Carotid Graft 3 Anastomosis Pre
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.30.3. 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.30.4. Intracranial Cerebral Vessels (unilateral)

MODALITY Label	***DICOM Mapping***
BA	T-45800,SRT,Basilar Artery
AComA	T-45530,SRT,A T-47300

Ba V	V12106-01,MRUS,Basilar Vein

C.30.5. 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

UE.A.Stent.3.2D	A12107-16,MRUS,Upper External Arterial Stent 3

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	A12107-15,MRUS,Upper External Arterial Stent 2
UE.A.Stent.3	A12107-16,MRUS,Upper External Arterial Stent 3
Mammary.A.Aneurysm	A12107-17,MRUS,Mammary Arterial Aneurysm
Mammary.A.Sten	A12107-24,MRUS,Mammary A Stenosis
Brachial.A.Sten	A12107-26,MRUS,Brachial Artery Stenosis
Radial.A.Sten	A12107-27,MRUS,Radial Artery Stenosis
Ulnar.A.Sten	A12107-28,MRUS,Ulnar Artery Stenosis

C.30.7. Upper Extremity Veins

MODALITY Label	*DICOM Mapping*
Axill V	T-49110,SRT ,Axillary vein
Basilic V	T-48052,SRT,Basilic vein
Brachial V	T-49350,SRT,Brachial vein
Cephalic V	T-49240,SRT,Cephalic vein
Radial V	T-49340,SRT,Radial vein
Subclav V	T-48330,SRT,Subclavian vein
Ulnar V	T-49330,SRT,Ulnar vein
Innom.V	T-48620,SRT,Innominate vein
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.30.8. 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.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
Ex.Iliac.A.Aneurysm.2D	A12109-24,MRUS,External Iliac Arterial Aneurysm
CFA.Aneurysm.2D	A12109-25,MRUS,Common Femoral Arterial Aneurysm
PFA.Aneurysm.2D	A12109-26,MRUS,Profunda Femoral Arterial Aneurysm
SFA.Aneurysm.2D	A12109-27,MRUS,Superficial Femoral Arterial Aneurysm
Pop.A.Aneurysm.2D	A12109-28,MRUS,Popliteal 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.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	

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.A	T-47741,SRT,Dorsalis Pedis Artery
Ex.Iliac.A	T-46910,SRT, External Iliac Artery
IIA	T-46740,SRT, Internal Iliac Artery

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.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.30.9. 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
PAV	G-036E,SRT,Posterior arch vein
PFV	T-49660,SRT,Profunda Femoris Vein
Soleal V	G-036B,SRT,Soleal vein
SFV	G-035A,SRT,Superficial Femoral Vein
TP	T-4942C,SRT,Thigh perforator
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.30.10. 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-46421,SRT,Common Hepatic Artery
GDA	T-46440,SRT,Gastroduodenal Artery
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

BT/F7 8.04 Tf1 0 0 (en-US)>> BDC q149456.2.33 18.6 reW* nBT/F7 456.2.3/F7 8.04 Tf1 0 0 1 154.58456.2.33 18.6 reW* nB445.9 C56.2] TJETO

EVAR.Inflow.2D	A12120-32,MRUS,EVAR Inflow
EVAR.Graft.Body.2D	A12120-33,MRUS,EVAR Graft Body
EVAR.Limb.2D	A12120-34,MRUS,EVAR Limb
EVAR.Outflow.2D	A12120-35,MRUS,EVAR Outflow

C.30.11. Abdominal Veins (unilateral)

MODALITY Label	*DICOM Mapping*
Hepatic V	T-48722eW* nBT.04 Tf1 0 0 i T-48722eW* nBT.04 Tf1 0 0 i

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
Ren.A.Org	A12115-01,MRUS,Ren A Org
Renal.A1	A12115-02,MRUS,Renal A1
Renal.A2	A12115-03,MRUS,Renal A2
Hilum	A12115-04,MRUS,Hilum
Artery.Anast.2.Transplant.1	A12115-21,MRUS,Artery Anast 2 Transplant 1
Vein.Anast.Transplant.1	V12115-06,MRUS,Vein Anast Transplant 1
Vein.Anast.2.Transplant.1	V12115-07,MRUS,Vein Anast 2 Transplant 1
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				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			

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, ure			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,			DCID (6022) Side
4	>	HAS PROPERTIES	CODE	EV (111401,			DCID (6051) Breast Procedure Reason

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
		MOD					Finding or Indicated Problem
7	>>>	HAS PROPERTIES	CODE	EV (G-C171,			DCID (6022) Side
8	>	HAS PROPERTIES	DATE	EV (111060,			
9	>	CONTAINS	INCLUDE	DTID (breast_lwh) Breast Ultrasound Section			AnatomyGroup = 00001_24;$SectionLaterality = 6023

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	>	CONTAIN	TEXT	EV (I12101-			

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

D.7. TID (4208) BREAST IMAGING REPORT SUPPLEMENTARY DATA

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (111414, DCM,			
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				

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	INCLU	0(N)6(C)·			

D.12. TID (breast_lwh) Breast 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	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = G-D7FE,SRT,Length; $Prefix=$AnatomyGroup; $Laterality=$SectionLaterality;	
5	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = G-A220,SRT,Width; $Prefix=$AnatomyGroup; $Laterality=$SectionLaterality;	
6	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = 121207,DCM,Height; $Prefix=$AnatomyGroup; $Laterality=$SectionLaterality;	
7	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = G-D705,SRT,Volume; $Prefix=$AnatomyGroup; $Laterality=$SectionLaterality;	
8	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = G-D785,SRT,Depth; $Prefix=$AnatomyGroup; $Laterality=$SectionLaterality;	
9	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = M12120-01,MRUS,Nipple Mass Distance; $Prefix=$AnatomyGroup; $Laterality=$SectionLaterality;	

D.13. TID(5401) Ultrasound Shear Wave Elastography 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 121058, DCM, "Procedure reported"		DT (448764002, SCT, "Ultrasound elastography (procedure) "	
3	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,		T-04000,SCT,Breast	
4	>	HAS CONCEPT MOD	CODE	EV (130759, DCM, "Shear Wave Detection Method")		130756,DCM,"Particle Displacement Method	
5	>	CONTAINS	INCLUDE	DTID (5402) Shear Wave Elastography Measurement		$Prefix= elas_meas_breast	

D.14. TID(5402) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121111, DCM, Summary)			
2	>	CONTAINS	INCLUDE	DTID(elas_group_cs)		$STEN = 130611,DCM,""Shear Wave Speed";$Prefix=$Prefix	
3	>	CONTAINS	INCLUDE	DTID(elas_group_e)			

4	>	CONTAINS	INCLUDE	DTID (elas_group_g)		$STEN = 110833,MRUS,""Shear Modulus";$Prefix=$Prefix	
5	>	CONTAINS	INCLUDE	DTID (elas_group_visco)		$STEN = 110834,MRUS,""Shear Wave Dispersion Slope visco";$Prefix=$Prefix	
6	>	CONTAINS	INCLUDE	DTID (elas_group_disp		$STEN = 110835,MRUS,""Shear Wave Dispersion Slope disp";$Prefix=$Prefix	
7	>	CONTAINS	INCLUDE	DTID (elas_group_u)		$STEN = 110836,MRUS,""Shear Wave Dispersion Slope none";$Prefix=$Prefix	

D.15. TID (elas_group_cs) Shear Wave Elastography Measurement

This is a private template referenced by TID(5402)

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (130611,DCM,""Shear Wave Speed")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_cs_quilifier	

D.16. TID (elas_group_e) Shear Wave Elastography Measurement

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

		T MOD					
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_ visco_quilifier	

D.19. TID (elas_group_disp) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (110835,MRUS,"Shear Wave Dispersion Slope disp")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_ disp_quilifier	

D.20. TID (elas_group_u) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (110836,MRUS,"Shear Wave Dispersion Slope none")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_ u_quilifier	

D.21. TID (elas_item) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			INCLUDE	DTID(elas)			

D.22. TID (elas) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			ELASTMEASNUM	$Measurement			
2			QUALIFIER	$Qualifier			
3			ELASTPREFIX	$Prefix			

D.23. CID (00001_23) Breast Ultrasoud Report

CSD	CV	Code Meaning
MRUS	M31415904	Submandib.Gland.2D

D.24. CID (00001_24) Breast Ultrasoud Report

CSD	CV	Code Meaning
MRUS	M31386509	Breast Finding 1
MRUS	M31386705	Breast Finding 2
MRUS	M31386905	Breast Finding 3
MRUS	M31387105	Breast Finding 4
MRUS	M31387305	Breast Finding 5
MRUS	M31387505	Breast Finding 6
MRUS	M31387705	Breast Finding 7
MRUS	M31387905	Breast Finding 8

CSD	CV	Code Meaning
MRUS	M31388105	Breast Finding 9
MRUS	M31388305	Breast Finding 10

D.25. Mapping between Modality measurements and DICOM Concepts.

D.25.1. Breast Measurements

MODALITY Label	*DICOM Mapping*
Mass L	G-A22A, SRT, Length
Mass W	G-A220, SRT, Width
Mass H	121207, DCM, Height
Mass Nipple-Mass Dist	121242, DCM, Distance from nipple
Mass Skin-Mass Dist	121243, DCM, Distance from skin
Mass Shape	M-020F9, SRT, Shape
Mass Contour & Margin	T6006-1, MRUS, Contour&Margin
Mass Capsule	T6006-2, MRUS, Capsule
Mass Height/Width	T6006-3, MRUS, Height/Width
Mass Echo Inside(to fat)	T6006-4, MRUS, Echo Inside(to fat)
Mass Posterior Echo	T6006-5, MRUS, Posterior Echo
Mass Vascularity	T6006-14, MRUS, Vascularity
Mass Surrounding Tissue	T6006-7, MRUS, Surrounding Tissue
Mass Elasticity	T6006-8, MRUS, Elasticity
Mass Calcifications	T6006-9, MRUS, Calcifications
Mass Multiple Homogeneous Mass	T6006-10, MRUS, Multiple Homogeneous Masses
Mass RI	T6006-15, MRUS, RI
MassID	M-03000,SRT,Mass
Shape	M-020FG,SRT,Shape
Shape.Oval	M-02120,SRT,Ovoid shape(Oval)
Shape.Round	M-02100,SRT,Round shape
Shape.Irregular	G-A402,SRT,Irregular
Orientation	11354,DCM,Orientation
Orientation.Para	111355,DCM,Parallel
Orientation.UnPara	111356,DCM,Not Parallel

Margins	111037,DCM,Margins
Margin.Circumscribed	F-01741,SRT,Circumscribed lesion
Margin.Indistinct	F-01744,SRT,Indistinct lesion
Margin.Angular	111343,DCM,Angular margins
Margin.Microlobulated	F-01742,SRT,Microlobulated lesion
Margin.Spiculated	F-01745,SRT,Spiculated lesion
Boundary	111357,DCM,Lesion boundary
Boundary.Abrupt	111358,DCM,Abrupt interface
Boundary.EchoHalo	111359,DCM,Echogenic halo
EchoPattern	111360,DCM,Echo pattern
EchoPattern.Anechoic	111361,DCM,Anechoic
EchoPattern.Hyperechoic	111362,DCM,Hyperechoic
EchoPattern.Complex	111363,DCM,Complex
EchoPattern.Hypoechoic	111364,DCM,Hypoechoic
EchoPattern.Isoechoic	111365,DCM,Isoechoic
PosteriorAcoustic	111366,DCM,Posterior acoustic features
PosteriorAcoustic.NoPos	111367,DCM,No posterior acoustic features
PosteriorAcoustic.Enhan	111368,DCM,Posterior enhancement
PosteriorAcoustic.Shadow	111369,DCM,Posterior shadowing
PosteriorAcoustic.Combined	11370,DCM,Combined posterior enhancement and shadowing
SurroundingTissue	111371,DCM,Identifiable effect on surrounding tissues
SurroundingTissue.DuctChange	T6015-1,MRUS,Duct changes
SurroundingTissue.Cooper	111111,DCM,Cooper's ligament changes
SurroundingTissue.Edema	M-36300,SRT,Edema
SurroundingTissue.ArchiDis	F-01795,SRT,Architectural distortion of breast
SurroundingTissue.SkinThick	F-0179A,SRT,Skin thickening of breast
SurroundingTissue.SkinRetract	F-01799,SRT,Skin retraction of breast
Calcifications	F-8A057,SRT,Calcification of breast
Calcification.Macro	111345,DCM,Macrocalcifications
Calcification.OutMass	111347,DCM,Calcifications outside of a mass
Calcification.InMass	111346,DCM,Calcifications within a mass
SpecialCases	T6064-1,MRUS,Special cases

SpecialCase.MassOnSkin	111113,DCM,Mass on the skin
SpecialCase.ForeignBody	M-30400,SRT,Foreign body
SpecialCase.IntraMamm	T-C4351,SRT,intra-mammary lymph node
SpecialCase.Axill	T-C4710,SRT,Axillary lymph node
Vascularity	111372,DCM,Vascularity
Vascularity.NoPresent	111373,DCM,Vascularity not present/DCM,111374,Vascularity not assessed
Vascularity.Present	111375,DCM,Vascularity present in lesion
Vascularity.PresentImme	111376,DCM,Vascularity present immediately adjacent to lesion
Vascularity.Diffuse	111377,DCM,Diffusely increased vascularity in surrounding tissue
AssessCat	111005,DCM,Assessment Category
AssessCat.Cat0	3.0,¢ .AC.a,BI,0-Need additional imaging evaluation
AssessCat.Cat1	3.0,¢ .AC.b.1,BI,1-Negative
AssessCat.Cat2	3.0,¢ .AC,BI,b.2,2-Benign Finding
AssessCat.Cat3	3.0,¢ .AC.b.3,BI,3-Probably Benign Finding-short interval follow-up
AssessCat.Cat4	3.0,¢ .AC.b.4,BI,4-Suspicious abnormality,biopsy should be considered
AssessCat.Cat5	3.0,¢ .AC.b.5,BI,5-Highly suggestive of malignancy,take appropriate action
AssessCat.Cat6	4.0,MA.¢ .A.5.6,BI,6-Known biopsy proven maligancy
C1	F-01781,SRT,1 o'clock position
C2	F-01782,SRT,2 o'clock position
C3	F-01783,SRT,3 o'clock position
C4	F-01784,SRT,4 o'clock position
C5	F-01785,SRT,5 o'clock position
C6	F-01786,SRT,6 o'clock position
C7	F-01787,SRT,7 o'clock position
C8	F-01788,SRT,8 o'clock position
C9	F-01789,SRT,9 o'clock position
CA	F-0178A,SRT,10 o'clock position
CB	F-0178B,SRT,11 o'clock position
CC	F-0178C,SRT,12 o'clock position
CX	T-6019-1,MRUS,undefined

Subareolar.region	F-0178D,SRT,Subareolar region
Axillary.tail	F-0178E,SRT,Axillary tail region
Central.region	F-0178F,SRT,Central region of breast

Axilla.region

Breast.Lymphnodes.Shape	T6006-22,MRUS,Shape
Breast.Lymphnodes.Margin	T6006-23,MRUS,Margin
Breast.Lymphnodes.hilar	T6006-24,MRUS,Hilar compression or displacement
Breast.Assessment	T6006-25,MRUS,Assessment
Breast.Calcifications	T6006-26,MRUS,Calcifications
Shape	T6006-41,MRUS,Shape
Orientation	T6006-42,MRUS,Orientation
Margin	T6006-43,MRUS,Margin
Echopattern	T6006-44,MRUS,Echo pattern
Posterior.Features	T6006-45,MRUS,Posterior features
Calcifications	T6006-46,MRUS,Calcifications
Associated.features	T6006-47,MRUS,Associated fetures
Skin.changes	T6006-48,MRUS,Skin changes
Vascularity	T6006-49,MRUS,Vascularity
Elas	T6006-50,MRUS,Elasticity assessment
Assessment	T6006-51,MRUS,Assessment categories

Note: The maximum of mass findings is 10.

D.25.1. Breast Elastography Measurements

MODALITY Label	*DICOM Mapping*
SML.Breast.Mass1.Strain	ME10000-36,MRUS,Breast Mass1 Strain
SML.Breast.Mass2.Strain	ME10000-37,MRUS,Breast Mass2 Strain
SML.Breast.Mass3.Strain	ME10000-38,MRUS,Breast Mass3 Strain
SML.Breast.Mass4.Strain	ME10000-39,MRUS,Breast Mass4 Strain
SML.Breast.Mass5.Strain	ME10000-40,MRUS,Breast Mass5 Strain
SML.Breast.Mass6.Strain	ME10000-41,MRUS,Breast Mass6 Strain
SML.Breast.Mass7.Strain	ME10000-42,MRUS,Breast Mass7 Strain
SML.Breast.Mass8.Strain	ME10000-43,MRUS,Breast Mass8 Strain
SML.Breast.Mass9.Strain	ME10000-44,MRUS,Breast Mass9 Strain
SML.Breast.Mass10.Strain	ME10000-45,MRUS,Breast Mass10 Strain
SML.Breast.Mass1.Elas	ME10000-46,MRUS,Breast Mass1 Elas
SML.Breast.Mass2.Elas	ME10000-47,MRUS,Breast Mass2 Elas
SML.Breast.Mass3.Elas	ME10000-48,MRUS,Breast Mass3 Elas
SML.Breast.Mass4.Elas	ME10000-49,MRUS,Breast Mass4 Elas
SML.Breast.Mass5.Elas	ME10000-50,MRUS,Breast Mass5 Elas
SML.Breast.Mass6.Elas	ME10000-51,MRUS,Breast Mass6 Elas
SML.Breast.Mass7.Elas	ME10000-52,MRUS,Breast Mass7 Elas
SML.Breast.Mass8.Elas	ME10000-53,MRUS,Breast Mass8 Elas
SML.Breast.Mass9.Elas	ME10000-54,MRUS,Breast Mass9 Elas
SML.Breast.Mass10.Elas	ME10000-55,MRUS,Breast Mass10 Elas
SML.Breast.Finding1.Strain	ME10000-56,MRUS,Breast Finding1 Strain
SML.Breast.Finding2.Strain	ME10000-57,MRUS,Breast Finding2 Strain
SML.Breast.Finding3.Strain	ME10000-58,MRUS,Breast Finding3 Strain
SML.Breast.Finding4.Strain	ME10000-59,MRUS,Breast Finding4 Strain
SML.Breast.Finding5.Strain	ME10000-60,MRUS,Breast Finding5 Strain
SML.Breast.Finding6.Strain	ME10000-61,MRUS,Breast Finding6 Strain
SML.Breast.Finding7.Strain	ME10000-62,MRUS,Breast Finding7 Strain
SML.Breast.Finding8.Strain	ME10000-63,MRUS,Breast Finding8 Strain
SML.Breast.Finding9.Strain	ME10000-64,MRUS,Breast Finding9 Strain
SML.Breast.Finding10.Strain	ME10000-65,MRUS,Breast Finding10 Strain
SML.Breast.Finding1.Elas	ME10000-66,MRUS,Breast Finding1 Elas
SML.Breast.Finding2.Elas	ME10000-67,MRUS,Breast Finding2 Elas

SML.Breast.Finding3.Elas	ME10000-68,MRUS,Breast Finding3 Elas
SML.Breast.Finding4.Elas	ME10000-69,MRUS,Breast Finding4 Elas
SML.Breast.Finding5.Elas	ME10000-70,MRUS,Breast Finding5 Elas
SML.Breast.Finding6.Elas	ME10000-71,MRUS,Breast Finding6 Elas
SML.Breast.Finding7.Elas	ME10000-72,MRUS,Breast Finding7 Elas
SML.Breast.Finding8.Elas	ME10000-73,MRUS,Breast Finding8 Elas
SML.Breast.Finding9.Elas	ME10000-74,MRUS,Breast Finding9 Elas
SML.Breast.Finding10.Elas	ME10000-75,MRUS,Breast Finding10 Elas
SML.Breast.Mass1.StrRt	ME10000-88,MRUS,Breast Mass1 StrRt
SML.Breast.Mass2.StrRt	ME10000-89,MRUS,Breast Mass2 StrRt
SML.Breast.Mass3.StrRt	ME10000-90,MRUS,Breast Mass3 StrRt
SML.Breast.Mass4.StrRt	ME10000-91,MRUS,Breast Mass4 StrRt
SML.Breast.Mass5.StrRt	ME10000-92,MRUS,Breast Mass5 StrRt
SML.Breast.Mass6.StrRt	ME10000-93,MRUS,Breast Mass6 StrRt
SML.Breast.Mass7.StrRt	ME10000-94,MRUS,Breast Mass7 StrRt
SML.Breast.Mass8.StrRt	ME10000-95,MRUS,Breast Mass8 StrRt
SML.Breast.Mass9.StrRt	ME10000-96,MRUS,Breast Mass9 StrRt
SML.Breast.Mass10.StrRt	ME10000-97,MRUS,Breast Mass10 StrRt
Shell.A.Max	MRUS TCE10000-0,Shell A Max
Shell.A.Mean	MRUS,TCE10000-1,Shell A Mean
Shell.A.Min	MRUS,TCE10000-2,Shell A Min
Shell.A.SD	MRUS,TCE10000-3,Shell A SD
Ratio.Area.A1.A	MRUS,TCE10000-4,Ratio Area A1 A
Ratio.Diam.A1.A	MRUS,TCE10000-5,Ratio Diam A1 A
STVi.Ratio.Mean	MRUS,TCE10000-6,STVi Ratio Mean
STVi.Ratio.Max	MRUS,TCE10000-7,STVi Ratio Max
STVi.Ratio.Min	MRUS,TCE10000-8,STVi Ratio Min
STVi.Ratio.SD	MRUS,TCE10000-9,STVi Ratio SD
A.B	MRUS,TCE10000-11,A B
A1.B	MRUS,TCE10000-12,A1 B
Shell.A	MRUS,TCE10000-13,Shell A
Shell.B	MRUS,TCE10000-14,Shell B
STVi.A.B	MRUS,TCE10000-17,STVi A B
STVi.A1.B	MRUS,TCE10000-18,STVi A1 B
STVi.Shell.A	MRUS,TCE10000-19,STVi Shell A

STVi.Shell.B	MRUS,TCE10000-20,STVi Shell B
B.A	MRUS,TCE10000-27,B A
B.A1	MRUS,TCE10000-28,B A1
A.Shell	MRUS,TCE10000-29,A Shell
B.Shell	MRUS,TCE10000-30,B Shell
B.A.1	MRUS,TCE10000-33,B A 1
A.Shell.1	MRUS,TCE10000-34,A Shell 1
B.Shell.1	MRUS,TCE10000-35,B Shell 1
B.A1.1	MRUS,TCE10000-36,B A1 1
Ratio.Area.A1.A.1	MRUS,TCE10000-37,Ratio Area A1 A 1
B.A.2	MRUS,TCE10000-38,B A 2
A.Shell.2	MRUS,TCE10000-39,A Shell 2
B.Shell.2	MRUS,TCE10000-40,B Shell 2
B.A1.2	MRUS,TCE10000-41,B A1 2
Ratio.Area.A1.A.2	MRUS,TCE10000-42,Ratio Area A1 A 2
B.A.3	MRUS,TCE10000-43,B A 3
A.Shell.3	MRUS,TCE10000-44,A Shell 3
B.Shell.3	MRUS,TCE10000-45,B Shell 3
B.A1.3	MRUS,TCE10000-46,B A1 3
Ratio.Area.A1.A.3	MRUS,TCE10000-47,Ratio Area A1 A 3
Depth	MRUS,TME10000-0,Depth
Diam	MRUS,TME10000-1,Diam
Elas.Mean	MRUS,TME10000-2,Elas Mean
Elas.Max	MRUS,TME10000-3,Elas Max
Elas.Min	MRUS,TME10000-4,Elas Min
Elas.SD	MRUS,TME10000-5,Elas SD
Elas.RLBIndex	MRUS,TME10000-6,Elas RLBIndex
STVi.A.Mean	MRUS,TME10000-7,STVi A Mean
STVi.A.Max	MRUS,TME10000-8,STVi A Max
STVi.A.Min	MRUS,TME10000-9,STVi A Min
STVi.A.SD	MRUS,TME10000-10,STVi A SD
A.Max	MRUS,TME10000-11,A Max
A.Mean	MRUS,TME10000-12,A Mean
A.Min	MRUS,TME10000-13,A Min
A.SD	MRUS,TME10000-14,A SD

A1.Max	MRUS,TME10000-15A1 Max
A1.Mean	MRUS,TME10000-16,A1 Mean
A1.Min	MRUS,TME10000-17,A1 Min
A1.SD	MRUS,TME10000-18,A1 SD
Shell.Max	MRUS,TME10000-19,Shell Max
Shell.Mean	MRUS,TME10000-20,Shell Mean
Shell.Min	MRUS,TME10000-21,Shell Min
Shell.SD	MRUS,TME10000-22,Shell SD
Round.Diam	MRUS,TME10000-23,Round Diam
A.RLBIndex	MRUS,TME10000-24,A RLBIndex
A1.RLBIndex	MRUS,TME10000-25,A1 RLBIndex
Shell.RLBIndex	MRUS,TME10000-26,Shell RLBIndex
A1.Diam	MRUS,TME10000-27,A1 Diam
A.Area	MRUS,TME10000-28,A Area
A1.Area	MRUS,TME10000-29,A1 Area
STVi.Shell.Mean	MRUS,TME10000-34,STVi Shell Mean
STVi.Shell.Max	MRUS,TME10000-35,STVi Shell Max
STVi.Shell.Min	MRUS,TME10000-36,STVi Shell Min
STVi.Shell.SD	MRUS,TME10000-37,STVi Shell SD
STVi.A1.Mean	MRUS,TME10000-38,STVi A1 Mean
STVi.A1.Max	MRUS,TME10000-39,STVi A1 Max
STVi.A1.Min	MRUS,TME10000-40,STVi A1 Min
STVi.A1.SD	MRUS,TME10000-41,STVi A1 SD
A	MRUS,TME10000-58,A
B	MRUS,TME10000-59,B
A1	MRUS,TME10000-60,A1
Shell	MRUS,TME10000-61,Shell
A.Diam	MRUS,TME10000-62,A Diam
B.Diam	MRUS,TME10000-63,B Diam
B.RLBIndex	MRUS,TME10000-66,B RLBIndex
B.Area	MRUS,TME10000-70,B Area
STVi.B.Mean	MRUS,TME10000-73,STVi B Mean
A.1	MRUS,TME10000-102,A 1

A.Diam.1	MRUS,TME10000-105,A Diam 1
A.Area.1	MRUS,TME10000-106,A Area 1
A1.Area.1	MRUS,TME10000-107,A1 Area 1
A.2	MRUS,TME10000-108,A 2
Shell.2	MRUS,TME10000-109,Shell 2
A1.2	MRUS,TME10000-110,A1 2
A.Diam.2	MRUS,TME10000-111,A Diam 2
A.Area.2	MRUS,TME10000-112,A Area 2
A1.Area.2	MRUS,TME10000-113,A1 Area 2
A.3	MRUS,TME10000-114,A 3
Shell.3	MRUS,TME10000-115,Shell 3
A1.3	MRUS,TME10000-116,A1 3
A.Diam.3	MRUS,TME10000-117,A Diam 3
A.Area.3	MRUS,TME10000-118,A Area 3
A1.Area.3	MRUS,TME10000-119,A1 Area 3

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SR Templates as
appings follow the
re Report, except

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Value Set Constraint

9	>	CONTAINS	INCLUDE	DTID (0105) Abdomen Ultrasound Section			$SectionScope=T-65000,SRT,Pancreas;$SectionLaterality = G-A103, SRT,Unilateral
10	>	CONTAINS	INCLUDE	DTID (0106) Abdomen Ultrasound Section			$SectionScope=T-C3000,SRT,Spleen;$SectionLaterality = G-A103, SRT,Unilateral
11	>	CONTAINS	INCLUDE	DTID (0107) Abdomen Ultrasound Section			$SectionScope=T-71000,SRT,Kidney;$SectionLaterality = G-A101, SRT,Left
12	>	CONTAINS	INCLUDE	DTID (0107) Abdomen Ultrasound Section			$SectionScope=T-71000,SRT,Kidney;$SectionLaterality = G-A100, SRT,Right
13	>	CONTAINS	INCLUDE	DTID (0108) Abdomen Ultrasound Section			$SectionScope=T-73000,SRT,Ureter;$SectionLaterality = G-A101, SRT,Left
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 Section			$SectionScope=T-487A0,SRT,Vein of Abdomen

20	>	CONTAINS	INCLUDE	DTID (SELFTMP_5103_10) Vascular Ultrasound Section			$SectionScope=T-487A0,SRT, Artery of Abdomen;$SectionLaterality=G-A101,SRT,Left
21	>	CONTAINS	INCLUDE	DTID (SELFTMP_5103_10) Vascular Ultrasound Section			$SectionScope=T-487A0,SRT, Artery of Abdomen;$SectionLaterality=G-A100,SRT,Right
22	>	CONTAINS	INCLUDE	DTID (0110) Abdomen Ultrasound Section			$SectionScope=DT (T-59600, aterality= EV (G-A103,
23	>	CONTAINS	INCLUDE	DTID (0110) Abdomen Ultrasound Section			$SectionScope=DT (T- ;$SectionLaterality= EV (G-A103,
24	>	CONTAINS	INCLUDE	DTID (kidney_group) Vascular Ultrasound Sectiond			$SectionScope=kidney_vol
25	>	CONTAINS	INCLUDE	TID (no_group) Abdomen Ultrasoud Report			
26	>	CONTAINS	INCLUDE	TID (5103-12114-l.48			

E.2. TID (0101) Abdomen Patient Characteristics

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	EV (121118, DCM,			
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					

4 >

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)	
5	>	CONTAINS	INCLUDE	DTID (300a) Measurement		$Measurement = ABD107;$Laterality=$SectionLaterality	

E.8. TID (0107) Abdomen Ultrasound Section

This is a private template referenced by TID(01

		MOD					
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (MT-73000-01, MR ; $Laterality=$SectionLaterality	

E.10. TID (0109) 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, 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	

	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 (5104) Vascular Measurement Group		$AnatomyGroup = $Anatomy= DCID (12112) Abdominal Arteries (unilateral); $Modifier =DCID(12116)	
5	>	CONTAINS	INCLUDE	EV (T-46002, ery of Abdomen		$Measurement = EV (T-46002,); $Modifier = DCID(12116)	

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, ;	
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, c Artery Peak Systolic Velocity/Abdominal Aorta Peak ;	
16	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (C12120-2, Velocity/Abdominal Aorta Peak Systolic ;	
17	HAS CONCEPT MOD	CODE	EV (G-A1F8, SRT, "Topographical Modifier)			$Modifier	
18	>	CONTAINS	INCLUDE	DTID (300) Measurem		$AnatomyGroup=$AnatomyGroup;$Measurement = ABD3_0_lr;$Laterality=$SectionLateralit	

5	>	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group		$AnatomyGroup = $Anatomy= EV (T-48727 ;	
6	>	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group		$AnatomyGroup = $Anatomy= EV (T-48725 ;	
7	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-12, ;	
8	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-22, ;	

E.15. TID (SELFTMP_5103_9) 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, SRT,		$SectionScope	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group		$AnatomyGroup = $Anatomy= DCID (12115) Abdominal Arteries (unilateral); $Modifier =DCID(12116)	
5	>	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group		$AnatomyGroup = $Anatomy= EV (T-46600 ; $Modifier =	

E.19. TID (no_group) Abdomen Ultrasoud Report

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	COMMENT
1	>		CONTAINER	DT (121070, DCM, "Findings")			
2	>	CONTEXT	INCLUDE	DTID (300) Measurement		$Measurement = abd_no_group	
3	>	CONTEXT	INCLUDE	DTID (300) Measurement		$Measurement = 8000_5	

E.20. TID (uro21)Abdomen Measurements

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint
1			CONTAINER	DT (125007, DCM, Measurement Group)		
2	>	HAS CONCEPT MOD	CODE	EV (G-A1F8, SRT, "Topographical Modifier")		$Modifier
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		Measurement=uro21;$Modifier=$Modifier
5	>	CONTAINS	INCLUDE	DTID (300) Measurement		Measurement=ABD_Aorta;$Modifier=$Modifier

E.21. TID (5103-12114-lr) Abdomen Ultrasoud Report

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	CODE	EV (G-C0E3,		$SectionScope	

		MOD		SRT,			
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (5103-rv) Vascular Measurement Group		$Modifier = 12116;$Laterality=$SectionLaterality	

E.22. TID (5103-other) Abdomen Ultrasoud Report

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 (125007, DCM, Measurement Group)			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,		$SectionScope	
3	>	HAS CONCEPT MOD	CODE	EV (G-A1F8, SRT, "Topographical Modifier")		$Modifier	
4	>	CONTAINS	INCLUDE	DTID (300) Vascular Measurement Group		$Measurement = "M12119-26,MRUS,Portal V Diam";$Modifier=$Modifier"	
5	>	CONTAINS	INCLUDE	DTID (300) Vascular Measurement Group		$Measurement = "M12119-36,MRUS,M Portal V Diam";$Modifier=$Modifier"	
6	>	CONTAINS	INCLUDE	DTID (300) Vascular Measurement		$Measurement = "M12119-39,MRUS,SMV Diam";$Modifier=$Modifier"	

				Group			
7	>	CONTAINS	INCLUDE	DTID (300) Vascular Measurement Group		$Measurement = "M12119-40,MRUS,IMV Diam";$Modifier=$Modifier	
8	>	CONTAINS	INCLUDE	DTID (300) Vascular Measurement Group		$Measurement = ""M12119-82,MRUS,Renal V Diam Dist"";$Modifier=$Modifier	

E.23. TID (5103-12114) Abdomen Ultrasoud Report

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, "Findings")			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT,		$SectionScope	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT, ""Laterality")		$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (5104) Measurement		$AnatomyGroup = 12114; $Modifier = 12116	
5	>	CONTAINS	INCLUDE	DTID (5103-other) Measurement		$Modifier = 12116	
6	>	CONTAINS	INCLUDE	DTID (5103-8) Measurement		$SectionScope = $SectionScope;$SectionLaterality = $SectionLaterality	

E.24. TID (5103-rv) Abdomen Ultrasoud Report

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 (125007, DCM, Measurement Group)			
2	>	HAS CONCEPT MOD	CODE	EV (G-A1F8, SRT, "Topographical Modifier")		$Modifier	
3	>	CONTAINS	INCLUDE	DTID (300) Vascular Measurement Group		$Measurement = "M12119-38,MRUS,Renal V Diam";$Modifier=$Modifier;$Laterality=$Laterality	
4	>	CONTAINS	INCLUDE	DTID (300) Vascular Measurement Group		$Measurement = "M12119-80,MRUS,Renal V1 Dist";$Modifier=$Modifier;$Laterality=$Laterality	
5	>	CONTAINS	INCLUDE	DTID (300) Vascular Measurement Group		$Measurement = "M12119-81,MRUS,Renal V2 Dist";$Modifier=$Modifier;$Laterality=$Laterality	
6	>	CONTAINS	INCLUDE	DTID (300) Vascular Measurement Group		$Measurement = "M31379701,MRUS,Renal A1 Dist";$Modifier=$Modifier;$Laterality=$Laterality	
7	>	CONTAINS	INCLUDE	DTID (300) Vascular		$Measurement = "M31379801,MRUS,Renal A2 Dist";$Modifier=$Modifier;$Laterality=$Lat	

				Measurement Group		erality	
8	>	CONTAINS	INCLUDE	DTID (300) Vascular Measurement Group		$Measurement = 00001_26;$Modifier=$Modifier;$Laterality= $Laterality	

E.25. TID (5103-12109) Abdomen 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	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,)		$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (5104)Vascular Ultrasound Measurement Group		$AnatomyGroup=12109;$SectionLaterality=$SectionLaterality; $Modifier = 12116	
5	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement=#AnatomyRatio; $Laterality=$SectionLaterality	

E.26. 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,		$Modifier	
3	>	HAS CONCEPT MOD	CODE	EV (G-A1F8, SRT,		$StenType	
4	>	CONTAINS	INCLUDE	DTID (300) Vascular Measurement Group		$Measurement=12119; $Laterality=$SectionLaterality; $Prefix=$AnatomyGroup; $StenType=$StenType; $Modifier=$Modifier;	

E.27. TID (104fmn) Abdomen Ultrasound Section

This is a private template referenced by TID( ).

	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-A1F8, SRT, "Topographical Modifier")		$Modifier	
3	>	HAS CONCEPT MOD	CODE	DTID (300) Measurement		$Measurement=ABD104fmn;$Modifier=$Modifier	

E.28. TID(5401) Ultrasound Shear Wave Elastography 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 121058, DCM, "Procedure reported"		DT (448764002, SCT, "Ultrasound elastography (procedure) "	
3	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,		T-62000,SCT,Liver	
4	>	HAS CONCEPT MOD	CODE	EV (130759, DCM, "Shear Wave Detection Method")		130756,DCM,"Particle Displacement Method	
5	>	CONTAINS	INCLUDE	DTID (5402) Shear Wave Elastography Measurement		$Prefix= elas_meas_abd	

E.29. TID(5402) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121111, DCM, Summary)			
2	>	CONTAINS	INCLUDE	DTID(elas_group_cs)		$STEN = 130611,DCM,""Shear Wave Speed";$Prefix=$Prefix	
3	>	CONTAINS	INCLUDE	DTID(elas_group_e)			
4	>	CONTAINS	INCLUDE	DTID (elas_group_g)		$STEN = 110833,MRUS,""Shear Modulus";$Prefix=$Prefix	

5	>	CONTAINS	INCLUDE	DTID (elas_group_visco)		$STEN = 110834,MRUS,""Shear Wave Dispersion Slope visco";$Prefix=$Prefix	
6	>	CONTAINS	INCLUDE	DTID (elas_group_disp		$STEN = 110835,MRUS,""Shear Wave Dispersion Slope disp";$Prefix=$Prefix	
7	>	CONTAINS	INCLUDE	DTID (elas_group_u)		$STEN = 110836,MRUS,""Shear Wave Dispersion Slope none";$Prefix=$Prefix	

E.30. TID (elas_group_cs) Shear Wave Elastography Measurement

This is a private template referenced by TID(5402)

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (130611,DCM,""Shear Wave Speed")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_cs_quilifier	

E.31. TID (elas_group_e) Shear Wave Elastography Measurement

N	Rel with	VT	26.98 458.95 Tm0 G[(P)
L	Parent		

				city")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_e_quilifier	

E.32. TID (elas_group_g) Shear Wave Elastography Measurement

This is a private template referenced by TID(5402)

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (110833,MRUS,"Shear Modulus")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_g_quilifier	

E.33. TID (elas_group_visco) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (110834,MRUS,"Shear Wave Dispersion Slope visco")			
2	>	HAS CONCEP	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	

		T MOD					
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_ visco_quilifier	

E.34. TID (elas_group_disp) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (110835,MRUS,"Shear Wave Dispersion Slope disp")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3,F7 8.04(			

3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_ u_quilifier	

E.36. TID (elas_item) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			INCLUDE	DTID(elas)			

E.37. TID (elas) Shear Wave Elastography Measurement

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

CSD	CV	Code Meaning
MRUS	M31419305	Adrenal Finding Width
MRUS	M31419306	Adrenal Finding Height
MRUS	M31419307	Adrenal Finding Volume
MRUS	MT-71000-05	Renal Height
MRUS	MT-71000-06	Renal Length
MRUS	MT-71000-07	Renal Width
MRUS	CT-71000-01	Renal Volume
MRUS	CT-71000-02	Renal Volume1
MRUS	MT-71000-08	Renal Lesion1 L
MRUS	MT-71000-09	Renal Lesion1 H
MRUS	MT-71000-10	Renal Lesion1 W
MRUS	MT-71000-29	Renal Lesion1 Volume
MRUS	MT-71000-11	Renal Lesion2 L
MRUS	MT-71000-12	Renal Lesion2 H
MRUS	MT-71000-13	Renal Lesion2 W
MRUS	MT-71000-30	Renal Lesion2 Volume
MRUS	MT-71000-14	Renal Lesion3 L
MRUS	MT-71000-15	Renal Lesion3 H
MRUS	MT-71000-16	Renal Lesion3 W
MRUS	MT-71000-31	Renal Lesion3 Volume
MRUS	MT-71000-17	Renal Cyst1 L
MRUS	MT-71000-18	Renal Cyst1 H
MRUS	MT-71000-19	Renal Cyst1 W
MRUS	MT-71000-26	Renal Cyst1 Volume
MRUS	MT-71000-20	Renal Cyst2 L
MRUS	MT-71000-21	Renal Cyst2 H
MRUS	MT-71000-22	Renal Cyst2 W
MRUS	MT-71000-27	Renal Cyst2 Volume
MRUS	MT-71000-23	Renal Cyst3 L
MRUS	MT-71000-24	Renal Cyst3 H
MRUS	MT-71000-25	Renal Cyst3 W
MRUS	MT-71000-28	Renal Cyst3 Volume
MRUS	MT-71000-04	Renal Cortical Thickness

E.39. CID(kidney_vol) Abdomen Measurements

CSD	CV	Code Meaning
MRUS	T-91000-30	Kidney Renal Transplant 1
MRUS	T-91000-31	Kidney Renal Transplant 2
MRUS	T-91000-32	Adrenal Renal Transplant 1
MRUS	T-91000-33	Adrenal Renal Transplant 2
MRUS	T-91000-33	Renal Transplant 1 Finding 1
MRUS	T-91000-34	Renal Transplant 1 Finding 2
MRUS	T-91000-35	Renal Transplant 1 Finding 3
MRUS	T-91000-36	Renal Transplant 1 Finding 4
MRUS	T-91000-37	Renal Transplant 1 Finding 5
MRUS	T-91000-38	Renal Transplant 1 Finding 6
MRUS	T-91000-39	Renal Transplant 2 Finding 1
MRUS	T-91000-40	Renal Transplant 2 Finding 2
MRUS	T-91000-41	Renal Transplant 2 Finding 3
MRUS	T-91000-42	Renal Transplant 2 Finding 4
MRUS	T-91000-43	Renal Transplant 2 Finding 5
MRUS	T-91000-44	Renal Transplant 2 Finding 6
MRUS	M31370706	Hepatic.Finding.1
MRUS	M31370906	Hepatic.Finding.2
MRUS	M31371106	Hepatic.Finding.3
MRUS	M31378506	Prostate.Finding1
MRUS	M31378706	Prostate.Finding2
MRUS	M31378906	Prostate.Finding3

E.40. CID (abd_no_group) Abdomen Measurements

CSD	CV	Code Meaning
MRUS	M99MR10001	Anorectal.Lesion.1.D1
MRUS	M99MR10002	Anorectal.Lesion.1.D2
MRUS	M99MR10003	Anorectal.Lesion.1.D3
MRUS	C99MR10004	Anorectal.Lesion.1.Vol
MRUS	M99MR10005	Anorectal.Lesion.2.D1
MRUS	M99MR10006	Anorectal.Lesion.2.D2

CSD	CV	Code Meaning
MRUS	M99MR10007	Anorectal.Lesion.2.D3
MRUS	C99MR10008	Anorectal.Lesion.2.Vol
MRUS	M99MR10009	Anorectal.Lesion.3.D1
MRUS	M99MR10010	Anorectal.Lesion.3.D2
MRUS	M99MR10011	Anorectal.Lesion.3.D3
MRUS	C99MR10012	Anorectal.Lesion.3.Vol
MRUS	M99MR10013	IntestineWall.T.Dist
MRUS	M31430307	Mesenteric.Stenosis.1.2D
MRUS	M31430507	Mesenteric.Stenosis.2.2D
MRUS	M31430707	Mesenteric.Stenosis.3.2D

E.41. CID (00001_26) Abdomen Measurements

CSD	CV	Code Meaning
MRUS	M31379701	Renal.A1.2D
MRUS	M31379801	Renal.A2.2D
MRUS	M31379901	Renal.V1.2D
MRUS	M31380001	Renal.V2.2D
MRUS	M31429401	Renal.V.2D
MRUS	M31004001	Renal.V.Diam

E.42. CID (ABD3_0_lr) Abdomen Measurements

CSD	CV	Code Meaning
MRUS	C12119-3	Renal Aortic Ratio
MRUS	C12119-4	RAR(Renal A)
MRUS	C12119-5	RAR(Arcuate A)
MRUS	C12119-6	RAR(Interlobar A)
MRUS	C12119-7	RAR(Segmental A)
MRUS	M12119-27	Iliac Diameter
MRUS	C12119-8	RAR Renal A1
MRUS	C12119-9	RAR Renal A2
MRUS	M12119-10	RAR Hilum

E.43. CID(psps1) Abdomen Measurements

CSD	CV	Code Meaning
MRUS	M12119-58	Renal A PS PS

E.44. CID(hri) Abdomen Measurements

CSD	CV	Code Meaning
MRUS	M12119-49	HRI
MRUS	M12119-50	HRI Liver Area
MRUS	M12119-51	HRI Liver Depth
MRUS	M12119-52	HRI Liver Diam
MRUS	M12119-53	HRI Liver Mean
MRUS	M12119-54	HRI RT Renal Cortex Area
MRUS	M12119-55	HRI RT Renal Cortex Depth
MRUS	M12119-56	HRI RT Renal Cortex Diam
MRUS	M12119-57	HRI RT Renal Cortex Mean

E.45. CID(8000_5) Abdomen Measurements

CSD	CV	Code Meaning
MRUS	C314288	MAR.Normal
MRUS	C314289	CAR.Normal
MRUS	M31437601	IVC.Diam.Dist
MRUS	C314381	Arterial.Post.MAR
MRUS	C314382	Arterial.Post.CAR

E.46. CID(ABD104fmn) Abdomen Measurements

CSD	CV	Code Meaning
MRUS	MT-63000-04	Common Bile Duct
MRUS	MT-63000-11	Cystic Duct
MRUS	M31004101	SMV.Diam
MRUS	M31004201	IMV.Diam
MRUS	M31005401	Splenic.A.Diam
MRUS	M31005501	Splenic.V.Diam

E.47. CID(ABD_Aorta) URO Measurements

CSD	CV	Code Meaning
MRUS	MT-94000-45	ABD Aorta PS
MRUS	MT-94000-46	ABD Aorta ED
MRUS	MT-94000-47	ABD Aorta RI
MRUS	MT-94000-48	ABD Aorta PI
MRUS	CT-94000-14	ABD Aorta PI(PS&ED)
MRUS	CT-94000-15	ABD Aorta TAMAX

E.48. Mapping between Modality measurements and DICOM Concepts.

E.48.1. 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 MRUS Renal Lesion3 d1
Renal Lesion3 d2	MT-71000-15 MRUS Renal Lesion3 d2
Renal Lesion3 d3	MT-71000-16 MRUS Renal Lesion3 d3
Renal Cyst1 d1	MT-71000-17 MRUS Renal Cyst1 d1
Renal Cyst1 d2	MT-71000-18 MRUS Renal Cyst1 d2
Renal Cyst1 d3	MT-71000-19 MRUS Renal Cyst1 d3
Renal Cyst2 d1	MT-71000-20 MRUS Renal Cyst2 d1

Renal Cyst2 d2	MT-71000-21 MRUS Renal Cyst2 d2
Renal Cyst2 d3	MT-71000-22 MRUS Renal Cyst2 d3
Renal Cyst3 d1	MT-71000-23 MRUS Renal Cyst3 d1
Renal Cyst3 d2	MT-71000-24 MRUS Renal Cyst3 d2
Renal Cyst3 d3	MT-71000-25 MRUS Renal Cyst3 d3
Ureter Diam	MT-73000-01 MRUS Ureter Diameter
Pre-BL H	MT-74000-01,MRUS,Previous-Bladder Height
Pre-BL L	MT-74000-02,MRUS,Previous-Bladder Length
Pre-BL W	MT-74000-03,MRUS,Previous-Bladder Width
Pre-BL Vol	CT-74000-01,MRUS,Previous-Bladder Volume
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

Liver.H	MT-62000-24,MRUS,Liver Height
Liver.W	MT-62000-25,MRUS,Liver Width
Hepatic.Lesion.1.Volume	CT-62000-02,MRUS,Hepatic Lesion1 Volume
Hepatic.Lesion.2.Volume	CT-62000-03,MRUS,Hepatic Lesion2 Volume
Hepatic.Lesion.3.Volume	CT-62000-04,MRUS,Hepatic Lesion3 Volume
Hepatic.Cyst.1.Volume	CT-62000-05,MRUS,Hepatic Cyst1 Volume
Hepatic.Cyst.2.Volume	CT-62000-06,MRUS,Hepatic Cyst2 Volume
Hepatic.Cyst.3.Volume	CT-62000-07,MRUS,Hepatic Cyst3 Volume
Panc.neck	MT-65010-04,MRUS,Pancreatic Neck
Adrenal.Vol	CT-71000-04,MRUS,Adrenal Volume
Renal.Lesion1.Vol	MT-71000-29,MRUS,Renal Lesion1 Volume
Renal.Lesion2.Vol	MT-71000-30,MRUS,Renal Lesion2 Volume
Renal.Lesion3.Vol	MT-71000-31,MRUS,Renal Lesion3 Volume
Renal.Cyst1.Vol	MT-71000-26,MRUS,Renal Cyst1 Volume
Renal.Cyst2.Vol	MT-71000-27,MRUS,Renal Cyst2 Volume
Renal.Cyst3.Vol	MT-71000-28,MRUS,Renal Cyst3 Volume
Ureter.Diam.Renal.Transplant.1	MT-73000-02,MRUS,Ureter Diam Renal Transplant 1
Ureter.Diam.Renal.Transplant.2	MT-73000-03,MRUS,Ureter Diam Renal Transplant 2
Urethra	MT-73000-04,MRUS,Urethra
PPSA	CT-74000-04,MRUS,PPSA
PSAD	CT-74000-05,MRUS,PSAD
Aorta.Bif	M12119-25,MRUS,Abdominal Aorta Bifurcate
Portal.V.Diam	M12119-26,MRUS,Portal V Diam
Iliac.Diam	M12119-27,MRUS,Iliac Diameter
RAR.Normal	C12119-4,MRUS,RAR(Renal A)
RAR.Arcuate.A	C12119-5,MRUS,RAR(Arcuate A)
RAR.Interlobar.A	C12119-6,MRUS,RAR(Interlobar A)
RAR.Segmental.A	C12119-7,MRUS,RAR(Segmental A)
Aorta.Diam1	M12119-31,MRUS,Aorta Diam1
Aorta.Diam2	M12119-32,MRUS,Aorta Diam2
Aorta.Area1	M12119-33,MRUS,Aorta Area1
Aorta.Area2	M12119-34,MRUS,Aorta Area2
Shunt.Diam	M12119-35,MRUS,Shunt Diam
M.Portal.V.Diam	M12119-36,MRUS,M Portal V Diam
PS.Conflnc.Diam	M12119-37,MRUS,PS Conflnc Diam

Hepatic.LST.Depth	M12119-45,MRUS,Hepatic LST Depth
Hepatic.LST.E.Mean	M12119-46,MRUS,Hepatic LST E Mean
Hepatic.LST.LAA	M12119-47,MRUS,Hepatic LST LAA
Hepatic.LST.Size	M12119-48,MRUS,Hepatic LST Size
HRI	M12119-49,MRUS,HRI
HRI.Liver.Area	M12119-50,MRUS,HRI Liver Area
HRI.Liver.Depth	M12119-51,MRUS,HRI Liver Depth
HRI.Liver.Diam	M12119-52,MRUS,HRI Liver Diam
HRI.Liver.Mean	M12119-53,MRUS,HRI Liver Mean
HRI.RT.Renal.Cortex.Area	M12119-54,MRUS,HRI RT Renal Cortex Area
HRI.RT.Renal.Cortex.Depth	M12119-55,MRUS,HRI RT Renal Cortex Depth
HRI.RT.Renal.Cortex.Diam	M12119-56,MRUS,HRI RT Renal Cortex Diam
HRI.RT.Renal.Cortex.Mean	M12119-57,MRUS,HRI RT Renal Cortex Mean
Aorta.PS	MT-94000-45,MRUS,ABD Aorta PS
Aorta.ED	MT-94000-46,MRUS,ABD Aorta ED
Aorta.RI	MT-94000-47,MRUS,ABD Aorta RI
Aorta.PI	MT-94000-48,MRUS,ABD Aorta PI
Aorta.PI(PS&ED)	CT-94000-14,MRUS,ABD Aorta PI(PS&ED)
Aorta.VolFlow	CT-94000-15,MRUS,ABD Aorta TAMAX
Anorectal.Lesion.1.D1	M99MR10001,MRUS,Anorectal.Lesion.1.D1
Anorectal.Lesion.1.D2	M99MR10002,MRUS,Anorectal.Lesion.1.D2
Anorectal.Lesion.1.D3	M99MR10003,MRUS,Anorectal.Lesion.1.D3
Anorectal.Lesion.1.Vol	C99MR10004,MRUS,Anorectal.Lesion.1.Vol
Anorectal.Lesion.2.D1	M99MR10005,MRUS,Anorectal.Lesion.2.D1
Anorectal.Lesion.2.D2	M99MR10006,MRUS,Anorectal.Lesion.2.D2
Anorectal.Lesion.2.D3	M99MR10007,MRUS,Anorectal.Lesion.2.D3
Anorectal.Lesion.2.Vol	C99MR10008,MRUS,Anorectal.Lesion.2.Vol
Anorectal.Lesion.3.D1	M99MR10009,MRUS,Anorectal.Lesion.3.D1
Anorectal.Lesion.3.D2	M99MR10010,MRUS,Anorectal.Lesion.3.D2
Anorectal.Lesion.3.D3	M99MR10011,MRUS,Anorectal.Lesion.3.D3
Anorectal.Lesion.3.Vol	C99MR10012,MRUS,Anorectal.Lesion.3.Vol
IntestineWall.T.Dist	M99MR10013,MRUS,IntestineWall.T.Dist
Arterial.Post.SMA.PS.Vel	M31414001,MRUS,Arterial Post SMA PS Vel
Arterial.Post.CA.PS.Vel	M31414201,MRUS,Arterial Post CA PS Vel
Arterial.Post.SMA.Ao	M314137,MRUS,SMA Ao Post

E.48.3. 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.48.4. 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

E.48.1. Abdomen Elastography Measurements

MODALITY Label	*DICOM Mapping*
ABD.Hepatic.Lesion1.Elas	ME10000-10,MRUS,Hepatic Lesion1 Elas
ABD.Hepatic.Lesion2.Elas	ME10000-11,MRUS,Hepatic Lesion2 Elas
ABD.Hepatic.Lesion3.Elas	ME10000-12,MRUS,Hepatic Lesion3 Elas
ABD.Hepatic.Finding1.Elas	ME10000-13,MRUS,Hepatic Finding1 Elas
ABD.Hepatic.Finding2.Elas	ME10000-14,MRUS,Hepatic Finding2 Elas
ABD.Hepatic.Finding3.Elas	ME10000-15,MRUS,Hepatic Finding3 Elas

ABD.LSM.Elas	ME10000-16,MRUS,LSM Elas
ABD.LAM.Elas	ME10000-17,MRUS,LAM Elas
ABD.Hepatic.Lesion1.ERt	ME10000-18,MRUS,Hepatic Lesion1 ERt
ABD.Hepatic.Lesion2.ERt	ME10000-19,MRUS,Hepatic Lesion2 ERt
ABD.Hepatic.Lesion3.ERt	ME10000-20,MRUS,Hepatic Lesion3 ERt
ABD.Hepatic.Finding1.ERt	ME10000-21,MRUS,Hepatic Finding1 ERt
ABD.Hepatic.Finding2.ERt	ME10000-22,MRUS,Hepatic Finding2 ERt
ABD.Hepatic.Finding3.ERt	ME10000-23,MRUS,Hepatic Finding3 ERt
ABD.Prostate.Finding1.Elas	ME10000-134,MRUS,Prostate Finding1 Elas
ABD.Prostate.Finding2.Elas	ME10000-135,MRUS,Prostate Finding2 Elas
ABD.Prostate.Finding3.Elas	ME10000-136,MRUS,Prostate Finding3 Elas
ABD.Prostate.Finding1.ERt	ME10000-148,MRUS,Prostate Finding1 ERt
ABD.Prostate.Finding2.ERt	ME10000-149,MRUS,Prostate Finding2 ERt
ABD.Prostate.Finding3.ERt	ME10000-150,MRUS,Prostate Finding3 ERt
Shell.A.Max	MRUS TCE10000-0,Shell A Max
Shell.A.Mean	MRUS TCE10000-1Shell A Mean
Shell.A.Min	MRUS TCE10000-2Shell A Min
Shell.A.SD	MRUS TCE10000-3Shell A SD

Shell3 125.33 18.6 reW* nren-U.58 426.55 Tm0 G[(S)BT EM58 42m.A( )]266.59 68.3 18.6 reW* n reShell3 125.33 18.6 reW* nr2e/MCID 19/Lang (en-U.63 426.55 Tm36 r8[(S6(R)-4

B.Shell	MRUS	TCE10000-30	B Shell
B.A.1	MRUS	TCE10000-33	B A 1
A.Shell.1	MRUS	TCE10000-34	A Shell 1
B.Shell.1	MRUS	TCE10000-35	B Shell 1
B.A1.1	MRUS	TCE10000-36	B A1 1
Ratio.Area.A1.A.1	MRUS	TCE10000-37	Ratio Area A1 A 1
B.A.2	MRUS	TCE10000-38	B A 2
A.Shell.2	MRUS	TCE10000-39	A Shell 2
B.Shell.2	MRUS	TCE10000-40	B Shell 2
B.A1.2	MRUS	TCE10000-41	B A1 2
Ratio.Area.A1.A.2	MRUS	TCE10000-42	Ratio Area A1 A 2
B.A.3	MRUS	TCE10000-43	B A 3
A.Shell.3	MRUS	TCE10000-44	A Shell 3
B.Shell.3	MRUS	TCE10000-45	B Shell 3
B.A1.3	MRUS	TCE10000-46	B A1 3
Ratio.Area.A1.A.3	MRUS	TCE10000-47	Ratio Area A1 A 3
Depth	MRUS	TME10000-0	Depth
Diam	MRUS	TME10000-1	Diam
Elas.Mean	MRUS	TME10000-2	Elas Mean
Elas.Max	MRUS	TME10000-3	Elas Max
Elas.Min	MRUS	TME10000-4	Elas Min
Elas.SD	MRUS	TME10000-5	Elas SD
Elas.RLBIndex	MRUS	TME10000-6	Elas RLBIndex
STVi.A.Mean	MRUS	TME10000-7	STVi A Mean
STVi.A.Max	MRUS	TME10000-8	STVi A Max
STVi.A.Min	MRUS	TME10000-9	STVi A Min
STVi.A.SD	MRUS	TME10000-10	STVi A SD
A.Max	MRUS	TME10000-11	A Max
A.Mean	MRUS	TME10000-12	A Mean
A.Min	MRUS	TME10000-13	A Min
A.SD	MRUS	TME10000-14	A SD
A1.Max	MRUS	TME10000-15	A1 Max
A1.Mean	MRUS	TME10000-16	A1 Mean
A1.Min	MRUS	TME10000-17	A1 Min
A1.SD	MRUS	TME10000-18	A1 SD

Shell.Max	MRUS	TME10000-19	Shell Max
Shell.Mean	MRUS	TME10000-20	Shell Mean
Shell.Min	MRUS	TME10000-21	Shell Min
Shell.SD	MRUS	TME10000-22	Shell SD
Round.Diam	MRUS	TME10000-23	Round Diam
A.RLBIndex	MRUS	TME10000-24	A RLBIndex
A1.RLBIndex	MRUS	TME10000-25	A1 RLBIndex
Shell.RLBIndex	MRUS	TME10000-26	Shell RLBIndex
A1.Diam	MRUS	TME10000-27	A1 Diam
A.Area	MRUS	TME10000-28	A Area
A1.Area	MRUS	TME10000-29	A1 Area
STVi.Shell.Mean	MRUS	TME10000-34	STVi Shell Mean
STVi.Shell.Max	MRUS	TME10000-35	STVi Shell Max
STVi.Shell.Min	MRUS	TME10000-36	STVi Shell Min
STVi.Shell.SD	MRUS	TME10000-37	STVi Shell SD
STVi.A1.Mean	MRUS	TME10000-38	STVi A1 Mean
STVi.A1.Max	MRUS	TME10000-39	STVi A1 Max
STVi.A1.Min	MRUS	TME10000-40	STVi A1 Min
STVi.A1.SD	MRUS	TME10000-41	STVi A1 SD
A	MRUS	TME10000-58	A
B	MRUS	TME10000-59	B
A1	MRUS	TME10000-60	A1
Shell	MRUS	TME10000-61	Shell
A.Diam	MRUS	TME10000-62	A Diam
B.Diam	MRUS	TME10000-63	B Diam
B.RLBIndex	MRUS	TME10000-66	B RLBIndex

Shell.2	MRUS	TME10000-109	Shell 2
A1.2	MRUS	TME10000-110	A1 2
A.Diam.2	MRUS	TME10000-111	A Diam 2
A.Area.2	MRUS	TME10000-112	A Area 2
A1.Area.2	MRUS	TME10000-113	A1 Area 2
A.3	MRUS	TME10000-114	A 3
Shell.3	MRUS	TME10000-115	Shell 3
A1.3	MRUS	TME10000-116	A1 3
A.Diam.3	MRUS	TME10000-117	A Diam 3
A.Area.3	MRUS	TME10000-118	A Area 3
A1.Area.3	MRUS	TME10000-119	A1 Area 3

F. Appendix : SMP Imaging structured reporting template

This appendix lists the DICOM Structured Report (SR) mappings used in the Small Part 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 Small Part Report mappings follow the self DICOM SR Template TID 0100: Small Part Ultrasound Procedure Report, except where noted.

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

F.1. TID (0200) Small Part ULTRASOUND REPORT

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (MR0100-02, MRUS,			
2	>	HAS CONCEPT MOD	INCL UDE	DTID (1204) Language of Content Item and Descendants			
3	>	HAS OBS CONTEXT	INCLUDE	DTID (1001) Observation Context			
4	>	CONTAINS	INCLUDE	DTID (0101) Small Part			

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

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
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,		(121093,DCM, "Sonographer")	
5	>	HAS OBS CONTEXT	CODE	EV(121024, DCM, "Subject		(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	

F.3. TID (0101) Small Part Patient Characteristics

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

1			CONTAINER	EV (MR0100-01, MRUS,Small Parts Ultrasound Procedure Report")			
2	>	HAS OBS CONTEXT	INCLUDE	DTID (1001) Small Part SERVATION CONTEXT			
3	>	CONTAINS	INCLUDE	DTID (0101a) Small Part Patient Characteristics			
4	>	CONTAINS	CONTAINER	EV (111028,DCM,Image Library)			
5	> >	CONTAINS	IMAGE	No purpose of reference			
6	>	CONTAINS	INCLUDE	DTID (0102) Small Part PROCEDURE SUMMARY SECTION			
7	>	CONTAINS	INCLUDE	DTID (0103) Small Part PROCEDURE SUMMARY SECTION			

F.4. TID (0101a) Small Part Patient Characteristics

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	EV (121118, DCM,Patient Characteristics)			
2	>	CONTAINS	NUM	EV (121033, DCM, "Subject Age")			
3	>	CONTAINS	CODE	EV (121032, DCM,		DCID (7455) Sex	
4	>	CONTAINS	NUM	EV (8867-			
5	>	CONTAINS	NUM	EV (8302-2, LN,			
6	>	CONTAINS	NUM	EV (29463-7, LN,			
7	>	CONTAINS	NUM	EV (F-01860,SRT,"Body Mass Index")			
8	>	CONTAINS	TEXT	EV (121118-1,MRUS,Fasting)			
9	>	CONTAINS	NUM	EV (121118-2,MRUS,ALT)			

F.5. TID (0102) Small Part PROCEDURE SUMMARY SECTION

NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constra5(i103

3	>	CONTAINS	TEXT	(I12111-01,MRUS,"Primary Indications")			
4	>	CONTAINS	TEXT	(I12111-02,MRUS,"Secondary Indications")			
5	>	CONTAINS	TEXT	(I12111-03,MRUS,"CPT4 Code")			
6	>	CONTAINS	TEXT	(I12111-04,MRUS,"CPT4 Description")			
7	>	CONTAINS	TEXT	EV (121106, DCM, "Comment")			

F.6. TID (0103) Small Part PROCEDURE SUMMARY SECTION

This is a private template referenced by TID(0101).

	NL	**Rel with Parent**	**VT**	**Concept Name**	**Used in MODALITY**	**Value Set Constraint**	**Comment**
1			CONTAINER	DT (121070,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,		$SectionScope	
3	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement=thy	
4	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement=thy2	
5	>	CONTAINS	INCLUDE	DTID (nodule_meas) Measurement		$AnatomyGroup=125007, DCM, Measurement Group;$Prefix=thy_side	
6	>	CONTAINS	INCLUDE	DTID (nodule_meas_nolr) Measurement		$AnatomyGroup=125007, DCM, Measurement Group;$Prefix=thy_nolr	
7	>	CONTAINS	INCLUDE	DTID (cyst-2) Measurement		$AnatomyGroup=thy_cyst; $Modifier=12116	
8	>	CONTAINS	INCLUDE	DTID (thyR) Measurement		$AnatomyGroup = T-62000,MRUS,Thyroid; $Laterality=G-A100,SRT, Right	

9	>	CONTAINS	INCLUDE	DTID (thyL) Measurement		$AnatomyGroup = T-62000,MRUS,Thyroid; $Laterality=G-A101,SRT, Left	
10	>	CONTAINS	INCLUDE	DTID (201) Measurement		$AnatomyGroup = MT-62000-22,MRUS,Thyroid; $Laterality=G-A100,SRT, Right	
11	>	CONTAINS	INCLUDE	DTID (201) Measurement		$AnatomyGroup = MT-62000-22,MRUS,Thyroid; $Laterality=G-A101,SRT, Left	

F.7. TID (0104) Small Part PROCEDURE SUMMARY SECTION

This is a private template referenced by TID(0101).

	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	>	CONTAINS	INCLUDE	DTID (TestisR) Measurement		$AnatomyGroup = T-94000,SRT,Testis; $Laterality=G-A100,SRT,Right	
4	>	CONTAINS	INCLUDE	DTID (TestisL) Measurement		$AnatomyGroup = T-94000,SRT,Testis; $Laterality=G-A101,SRT,Left	
5	>	CONTAINS	INCLUDE	DTID (TestisV) Measurement		$AnatomyGroup = T-94000,SRT,Testis; $Laterality=244	
6	>	CONTAINS	INCLUDE	DTID (5103-TESTIS)		$AnatomyGroup = T-94000,SRT,Testis;$Laterality=244	

F.9. TID (0106) Small Part Ultrasound Section

This is a private template referenced by TID(0101).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	EV (121070, DCM, "Findings")			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, "Finding Site")		$AnatomyGroup	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171,SRT,Laterality)		$Laterality	
4	>	CONTAINS	INCLUDE	DTID (300VAS) Measurement		$Measurement = 12119 $Prefix=$AnatomyGroup;$Laterality=$Laterality	

[redacted] Section

						Value Set Constraint	Comment
1			CONTAINER	EV (121070, DCM, "Findings")			

F.13. TID (300VAS) Vascular ULTRASOUND SECTION

This is a private template referenced by TID(0101).

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			MEASNUM				
2	>	HAS CONCEPT MOD	LATER			$Laterality	
4	>	HAS CONCEPT MOD	MOD			$Modifier	
5	>	HAS CONCEPT MOD	PREFIX			$Prefix	
6	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, "Finding Site")		$AnatomyGroup	
7	>	CONTAINS	INCLUDE	DTID (300VAS) Measurement		$Measurement = 12119 $Prefix=$AnatomyGroup; $Prefix=smp-vas3;	

F.14. TID (5104) Vascular ULTRASOUND SECTION

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER		1	M		$AnatomyGroup
2	>	HAS CONCEPT MOD	CODE	EV(G-A1F8, SRT, "Topographical Modifier")	1	U		$Modifier
3		CONTAINS	INCLUDE	DTID (300) Measurement	1-n	M		$Measurement = 12119;$Laterality=$SectionLaterality; $Prefix=$AnatomyGroup;$Modifier=$Modifier

F.15. TID (uro_group) Small Part PROCEDURE SUMMARY SECTION

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,			DT (T-71000,
3	>	CONTAINS	INCLUDE	DTID (uro_meas) Measurement			$SectionScope = $SectionScope; $Laterality=$Laterality

F.16. 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.17. 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.18. TID (201) Small Part Ultrasound Section

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	EV (125007, DCM, Measurement Group			
2	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,	>	$Laterality	
3	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement=thy1; $Laterality=$Laterality	

F.19.

7	>	CONTAINS	INCLUDE	DTID (300t) Measurement		$Measurement = G-D705,SRT,Volume; $Prefix=$AnatomyGroup; $Laterality=$SectionLaterality;	

F.21. TID(5401) Ultrasound Shear Wave Elastography 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 121058, DCM, "Procedure reported"		DT (448764002, SCT, "Ultrasound elastography (procedure) "	
3	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,		T-B6000,SCT,Thyroid	
4	>	HAS CONCEPT MOD	CODE	EV (130759, DCM, "Shear Wave Detection Method")		130756,DCM,"Particle Displacement Method	
5	>	CONTAINS	INCLUDE	DTID (5402) Shear Wave Elastography Measurement		$Prefix=elas_meas_ thy	

F.22. TID(5402) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121111, DCM, Summary)			
2	>	CONTAINS	INCLUDE	DTID(elas_group_cs)		$STEN = 130611,DCM,""Shear Wave Speed";$Prefix=$Prefix	

3	>	CONTAINS	INCLUDE	DTID(elas_group_e)			
4	>	CONTAINS	INCLUDE	DTID (elas_group_g)		$STEN = 110833,MRUS,""Shear Modulus";$Prefix=$Prefix	
5	>	CONTAINS	INCLUDE	DTID (elas_group_visco)		$STEN = 110834,MRUS,""Shear Wave Dispersion Slope visco";$Prefix=$Prefix	
6	>	CONTAINS	INCLUDE	DTID (elas_group_disp		$STEN = 110835,MRUS,""Shear Wave Dispersion Slope disp";$Prefix=$Prefix	
7	>	CONTAINS	INCLUDE	DTID (elas_group_u)		$STEN = 110836,MRUS,""Shear Wave Dispersion Slope none";$Prefix=$Prefix	

F.23. TID (elas_group_cs) Shear Wave Elastography Measurement

This is a private template referenced by TID(5402)

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (130611,DCM,""Shear Wave Speed")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_cs_quilifier	

F.24. TID (elas_group_e) Shear Wave Elastography Measurement

F.28. TID (elas_group_u) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (110836,MRUS,"Shear Wave Dispersion Slope none")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_ u_quilifier	

F.29. TID (elas_item) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			INCLUDE	DTID(elas)			

F.30. TID (elas) Shear Wave Elastography Measurement

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

F.31. CID (12130) Thyroid Measurements

CSD	CV	Code Meaning
DCM	121207	Height
SRT	G-D7FE	Length
DCM	122445	Wall Thickness
SRT	G-D705	Volume
MRUS	MT-B6000-01	Thyroid Mass1 d1
MRUS	MT-B6000-02	Thyroid Mass1 d2
MRUS	MT-B6000-03	Thyroid Mass1 d3
MRUS	MT-B6000-04	Thyroid Mass2 d1
MRUS	MT-B6000-05	Thyroid Mass2 d2
MRUS	MT-B6000-06	Thyroid Mass2 d3
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

CSD	CV	Code Meaning
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
MRUS	MT-B6000-67	Isthmus Finding 2 d3
MRUS	CT-B6000-11	Isthmus Finding 2 Volume
MRUS	MT-B6000-68	Isthmus Finding 3 d1
MRUS	MT-B6000-69	Isthmus Finding 3 d2
MRUS	MT-B6000-70	Isthmus Finding 3 d3
MRUS	CT-B6000-12	Isthmus Finding 3 Volume
MRUS	MT-B6000-71	Thyroid Depth

F.32. CID (121

CSD	CV	Code Meaning
MRUS	MT-B6000-31	Thyroid(Mid) AP
MRUS	MT-B6000-32	Thyroid(Mid) Trans
MRUS	MT-B6000-33	Thyroid(Inf) AP
MRUS	MT-B6000-34	Thyroid(Inf) Trans
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
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 AP
MRUS	MT-B6000-45	Lymph Node1 Trans
MRUS	MT-B6000-46	Lymph Node1 Long
MRUS	CT-B6000-4	Lymph Node1 Volume
MRUS	MT-B6000-47	Lymph Node2 AP
MRUS	MT-B6000-48	Lymph Node2 Trans
MRUS	MT-B6000-49	Lymph Node2 Long
MRUS	CT-B6000-5	Lymph Node2 Volume
MRUS	MT-B6000-50	Lymph Node3 AP
MRUS	MT-B6000-51	Lymph Node3 Trans
MRUS	MT-B6000-52	Lymph Node3 Long
MRUS	CT-B6000-6	Lymph Node3 Volume
MRUS	MT-B6000-53	Lymph Node4 AP
MRUS	MT-B6000-54	Lymph Node4 Trans
MRUS	MT-B6000-55	Lymph Node4 Long
MRUS	CT-B6000-7	Lymph Node4 Volume
MRUS	MT-B6000-56	Lymph Node5 AP
MRUS	MT-B6000-57	Lymph Node5 Trans

CSD	CV	Code Meaning
MRUS	MT-B6000-58	Lymph Node5 Long
MRUS	CT-B6000-8	Lymph Node5 Volume
MRUS	MT-B6000-59	Lymph Node6 AP
MRUS	MT-B6000-60	Lymph Node6 Trans
MRUS	MT-B6000-61	Lymph Node6 Long
MRUS	CT-B6000-9	Lymph Node6 Volume

F.37. CID (thy_side) Thyroid Measurement

CSD	CV	Code Meaning
MRUS	MT-B6000-90	Thyroid Nodule 1
MRUS	MT-B6000-91	Thyroid Nodule 2
MRUS	MT-B6000-92	Thyroid Nodule 3
MRUS	MT-B6000-93	Thyroid Nodule 4
MRUS	MT-B6000-94	Thyroid Nodule 5
MRUS	MT-B6000-95	Thyroid Nodule 6
MRUS	MT-B6000-96	Thyroid Nodule 7
MRUS	MT-B6000-97	Thyroid Nodule 8
MRUS	MT-B6000-98	Thyroid Nodule 9
MRUS	CT-B6000-99	Thyroid Nodule 10

F.38. CID (00001_20) Thyroid Measurement

CSD	CV	Code Meaning
MRUS	M31371706	Lymph.Node.Level.I
MRUS	M31371906	Lymph.Node.Level.IA
MRUS	M31372106	Lymph.Node.Level.IB
MRUS	M31372306	Lymph.Node.Level.II
MRUS	M31372506	Lymph.Node.Level.IIA
MRUS	M31372706	Lymph.Node.Level.IIB
MRUS	M31372906	Lymph.Node.Level.III
MRUS	M31373106	Lymph.Node.Level.IV
MRUS	M31373306	Lymph.Node.Level.V
MRUS	M31373506	Lymph.Node.Level.VA
MRUS	M31373706	Lymph.Node.Level.VB
MRUS	M31373906	Lymph.Node.Level.VI

CSD	CV	Code Meaning
MRUS	M31374106	Lymph.Node.Level.VII
MRUS	M31374304	Isthmus.Nodule.1
MRUS	M31374504	Isthmus.Nodule.2
MRUS	M31374704	Isthmus.Nodule.3
MRUS	M31416104	Parathyroid.Finding.1
MRUS	M31416304	Parathyroid.Finding.2
MRUS	M31416504	Parotid.Finding
MRUS	M31416704	Submandib.Finding

F.39. CID (00001_24) Breast Measurements

CSD	CV	Code Meaning
MRUS	M31386509	Breast Finding 1
MRUS	M31386705	Breast Finding 2
MRUS	M31386905	Breast Finding 3
MRUS	M31387105	Breast Finding 4
MRUS	M31387305	Breast Finding 5
MRUS	M31387505	Breast Finding 6
MRUS	M31387705	Breast Finding 7
MRUS	M31387905	Breast Finding 8
MRUS	M31388105	Breast Finding 9
MRUS	M31388305	Breast Finding 10

F.40. Mapping between Modality measurements and DICOM Concepts.

F.40.1. SMP 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

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
Thyroid.Cyst.1	MT-B6000-11,MRUS,Thyroid Cyst1
Thyroid.Cyst.2	MT-B6000-12,MRUS,Thyroid Cyst2
Thyroid.Cyst.3	MT-B6000-13,MRUS,Thyroid Cyst3
Thyroid.Cyst.4	MT-B6000-14,MRUS,Thyroid Cyst4
Thyroid.Cyst.5	MT-B6000-15,MRUS,Thyroid Cyst5
Thyroid.Cyst.6	MT-B6000-16,MRUS,Thyroid Cyst6
Thyroid.Cyst.7	MT-B6000-17,MRUS,Thyroid Cyst7
Thyroid.Cyst.8	MT-B6000-18,MRUS,Thyroid Cyst8
Thyroid.Cyst.9	MT-B6000-19,MRUS,Thyroid Cyst9
Thyroid.Cyst.10	MT-B6000-20,MRUS,Thyroid Cyst10
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.Cyst1.Vol	CT-B6000-13,MRUS,Thyroid Cyst1 Volume
Thy.Cyst2.Vol	CT-B6000-14,MRUS,Thyroid Cyst2 Volume
Thy.Cyst3.Vol	CT-B6000-15,MRUS,Thyroid Cyst3 Volume
Thy.Nodule1.Long	MT-B6000-20,MRUS,Thyroid Nodule1 Long
Thy.Nodule1.Trans	MT-B6000-21,MRUS,Thyroid Nodule1 Trans
Thy.Nodule1.AP	MT-B6000-22,MRUS,Thyroid Nodule1 AP

Thy.Nodule2.Long	MT-B6000-23,MRUS,Thyroid Nodule2 Long
Thy.Nodule2.Trans	MT-B6000-24,MRUS,Thyroid Nodule2 Trans
Thy.Nodule2.AP	MT-B6000-25,MRUS,Thyroid Nodule2 AP
Thy.Nodule3.Long	MT-B6000-26,MRUS,Thyroid Nodule3 Long
Thy.Nodule3.Trans	MT-B6000-27,MRUS,Thyroid Nodule3 Trans
Thy.Nodule3.AP	MT-B6000-28,MRUS,Thyroid Nodule3 AP
Thy.Nodule1.Vol	CT-B6000-16,MRUS,Thyroid Nodule1 Volume
Thy.Nodule2.Vol	CT-B6000-17,MRUS,Thyroid Nodule2 Volume
Thy.Nodule3.Vol	CT-B6000-18,MRUS,Thyroid Nodule3 Volume
Thyroid.Superior.AP	MT-B6000-29,MRUS,Thyroid(Sup) AP
Thyroid.Superior.Trans	MT-B6000-30,MRUS,Thyroid(Sup) Trans
Thyroid.Mid.AP	MT-B6000-31,MRUS,Thyroid(Mid) AP
Thyroid.Mid.Trans	MT-B6000-32,MRUS,Thyroid(Mid) Trans
Thyroid.Inferior.AP	MT-B6000-33,MRUS,Thyroid(Inf) AP
Thyroid.Inferior.Trans	MT-B6000-34,MRUS,Thyroid(Inf) Trans
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.AP	MT-B6000-41,MRUS,Parotid Height
Parotid.2D.Trans	MT-B6000-42,MRUS,Parotid Width
Parotid.2D.Long	MT-B6000-43,MRUS,Parotid Length
Parotid.2D.Volume	CT-B6000-3,MRUS,Parotid Volume
Lymph.Node.1.AP	MT-B6000-44,MRUS,Lymph Node1 AP
Lymph.Node.1.Trans	MT-B6000-45,MRUS,Lymph Node1 Trans
Lymph.Node.1.Long	MT-B6000-46,MRUS,Lymph Node1 Long
Lymph.Node.1.Volume	CT-B6000-4,MRUS,Lymph Node1 Volume
Lymph.Node.2.AP	MT-B6000-47,MRUS,Lymph Node2 AP
Lymph.Node.2.Trans	MT-B6000-48,MRUS,Lymph Node2 Trans
Lymph.Node.2.Long	MT-B6000-49,MRUS,Lymph Node2 Long
Lymph.Node.2.Volume	CT-B6000-5,MRUS,Lymph Node2 Volume

Lymph.Node.3.AP	MT-B6000-50,MRUS,Lymph Node3 AP
Lymph.Node.3.Trans	MT-B6000-51,MRUS,Lymph Node3 Trans
Lymph.Node.3.Long	MT-B6000-52,MRUS,Lymph Node3 Long
Lymph.Node.3.Volume	CT-B6000-6,MRUS,Lymph Node3 Volume
Lymph.Node.4.AP	MT-B6000-53,MRUS,Lymph Node4 AP
Lymph.Node.4.Trans	MT-B6000-54,MRUS,Lymph Node4 Trans
Lymph.Node.4.Long	MT-B6000-55,MRUS,Lymph Node4 Long
Lymph.Node.4.Volume	CT-B6000-7,MRUS,Lymph Node4 Volume
Lymph.Node.5.AP	MT-B6000-56,MRUS,Lymph Node5 AP
Lymph.Node.5.Trans	MT-B6000-57,MRUS,Lymph Node5 Trans
Lymph.Node.5.Long	MT-B6000-58,MRUS,Lymph Node5 Long
Lymph.Node.5.Volume	CT-B6000-8,MRUS,Lymph Node5 Volume
Lymph.Node.6.AP	MT-B6000-59,MRUS,Lymph Node6 AP
Lymph.Node.6.Trans	MT-B6000-60,MRUS,Lymph Node6 Trans
Lymph.Node.6.Long	MT-B6000-61,MRUS,Lymph Node6 Long
Lymph.Node.6.Volume	CT-B6000-9,MRUS,Lymph Node6 Volume
Isthmus.Finding.1.AP	MT-B6000-62,MRUS,Isthmus Finding 1 AP
Isthmus.Finding.1.Trans	MT-B6000-63,MRUS,Isthmus Finding 1 Trans
Isthmus.Finding.1.Long	MT-B6000-64,MRUS,Isthmus Finding 1 Long
Isthmus.Finding.1.Volume	CT-B6000-10,MRUS,Isthmus Finding 1 Volume
Isthmus.Finding.2.AP	MT-B6000-65,MRUS,Isthmus Finding 2 AP
Isthmus.Finding.2.Trans	MT-B6000-66,MRUS,Isthmus Finding 2 Trans
Isthmus.Finding.2.Long	MT-B6000-67,MRUS,Isthmus Finding 2 Long
Isthmus.Finding.2.Volume	CT-B6000-11,MRUS,Isthmus Finding 2 Volume
Isthmus.Finding.3.AP	MT-B6000-68,MRUS,Isthmus Finding 3 AP
Isthmus.Finding.3.Trans	MT-B6000-69,MRUS,Isthmus Finding 3 Trans
Isthmus.Finding.3.Long	MT-B6000-70,MRUS,Isthmus Finding 3 Long
Isthmus.Finding.3.Volume	CT-B6000-12,MRUS,Isthmus Finding 3 Volume
Thy.Depth	MT-B6000-71 MRUS Thyroid Depth
Composition	MT-B6000-80,MRUS,Composition
Echogenicity	MT-B6000-81,MRUS,Echogenicity
Shape	MT-B6000-82,MRUS,Shape
Margin	MT-B6000-83,MRUS,Margin
Echogenic.Foci	MT-B6000-84,MRUS,Echogenic.Foci
Thyroid.NODULE1	MT-B6000-90,MRUS,Thyroid Nodule 1

Thyroid.NODULE2	MT-B6000-91,MRUS,Thyroid Nodule 2
Thyroid.NODULE3	MT-B6000-92,MRUS,Thyroid Nodule 3
Thyroid.NODULE4	MT-B6000-93,MRUS,Thyroid Nodule 4
Thyroid.NODULE5	MT-B6000-94,MRUS,Thyroid Nodule 5
Thyroid.NODULE6	MT-B6000-95,MRUS,Thyroid Nodule 6
Thyroid.NODULE7	MT-B6000-96,MRUS,Thyroid Nodule 7
Thyroid.NODULE8	MT-B6000-97,MRUS,Thyroid Nodule 8
Thyroid.NODULE9	MT-B6000-98,MRUS,Thyroid Nodule 9
Thyroid.NODULE10	MT-B6000-99,MRUS,Thyroid Nodule 10
d1	MT-B6000-31,MRUS,Thyroid Cyst d1

SML.Thyroid.Nodule3.Elas	ME10000-35,MRUS,Thyroid Nodule3 Elas

B.A.1	MRUS	TCE10000-33	B A 1
A.Shell.1	MRUS	TCE10000-34	A Shell 1
B.Shell.1	MRUS	TCE10000-35	B Shell 1
B.A1.1	MRUS	TCE10000-36	B A1 1
Ratio.Area.A1.A.1	MRUS	TCE10000-37	Ratio Area A1 A 1
B.A.2	MRUS	TCE10000-38	B A 2
A.Shell.2	MRUS	TCE10000-39	A Shell 2
B.Shell.2	MRUS	TCE10000-40	B Shell 2
B.A1.2	MRUS	TCE10000-41	B A1 2
Ratio.Area.A1.A.2	MRUS	TCE10000-42	Ratio Area A1 A 2
B.A.3	MRUS	TCE10000-43	B A 3
A.Shell.3	MRUS	TCE10000-44	A Shell 3
[redacted]	MRUS	TCE10000-	

459.036 wC*EMF-41049 5B35 288.3 18.6 reW* nBT03/F2 nBT/F7 0 1 294.31 523.27 Tm0

Shell.Mean	MRUS	TME10000-20	Shell Mean
Shell.Min	MRUS	TME10000-21	Shell Min
Shell.SD	MRUS	TME10000-22	Shell SD
Round.Diam	MRUS	TME10000-23	Round Diam
A.RLBIndex	MRUS	TME10000-24	A RLBIndex
A1.RLBIndex	MRUS	TME10000-25	A1 RLBIndex
Shell.RLBIndex	MRUS	TME10000-26	Shell RLBIndex
A1.Diam	MRUS	TME10000-27	A1 Diam
A.Area	MRUS	TME10000-28	A Area
A1.Area	MRUS	TME10000-29	A1 Area
STVi.Shell.Mean	MRUS	TME10000-34	STVi Shell Mean
STVi.Shell.Max	MRUS	TME10000-35	STVi Shell Max
STVi.Shell.Min	MRUS	TME10000-36	STVi Shell Min
STVi.Shell.SD	MRUS	TME10000-37	STVi Shell SD
STVi.A1.Mean	MRUS	TME10000-38	STVi A1 Mean
STVi.A1.Max	MRUS	TME10000-39	STVi A1 Max
STVi.A1.Min	MRUS	TME10000-40	STVi A1 Min
STVi.A1.SD	MRUS	TME10000-41	STVi A1 SD
A	MRUS	TME10000-58	A
B	MRUS	TME10000-59	B
A1	MRUS	TME10000-60	A1
Shell	MRUS	TME10000-61	Shell
A.Diam	MRUS	TME10000-62	A Diam
B.Diam	MRUS	TME10000-63	B Diam
B.RLBIndex	MRUS	TME10000-66	B RLBIndex
B.Area	MRUS	TME10000-70	B Area
STVi.B.Mean	MRUS	TME10000-73	STVi B Mean
A.1	MRUS	TME10000-102	A 1
Shell.1	MRUS	TME10000-103	Shell 1
A1.1	MRUS	TME10000-104	A1 1
A.Diam.1	MRUS	TME10000-105	A Diam 1
A.Area.1	MRUS	TME10000-106	A Area 1

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, “Observer Type”)	1	MC	(121006,DCM, “Person”)
	>	HAS OBS CONTEXT	PNAME	EV (121008,DCM, “Person Observer Name”)	1	M	Operator from Info
	>	HAS OBS CONTEXT	TEXT	EV (121009,DCM, “ Person Observer’s Organization Name”)	1	U	Institution Name (0008,0080) of the General Equipment Module
	>	HAS OBS CONTEXT	CODE	EV (121010,DCM, “ Person Observer’s Role in the Organization”)	1	U	(121093, DCM, "Sonographer")
	>	HAS OBS CONTEXT	CODE	EV (121024, DCM, "Subject Class”)	1	MC	(121025, DCM, "Patient”)
	>	HAS OBS CONTEXT	PNAME	EV (121029,DCM, "Subject Name”)	1	MC	value of Patient’s Name (0010,0010) in Patient Module
	>	HAS OBS	DATE	EV (121031,DCM, "Subject	1	U	value of Patient’s Birth

CONTEXT			Date (0010,0030) in Patient Module
HAS OBS CONTEXT	CODE	U	value equivalent to Patient's Sex (0010,0040) in Patient Module
HAS OBS CONTEXT	NUM	U	value of Patient's Age (0010,1010) in Patient Study Module

H. Appendix : URO Imaging structured reporting template

This appendix lists the DICOM Structured Report (SR) mappings used in the

URO 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 URO Report mappings follow the self DICOM SR Template, except where noted.

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

Note D QNK ON *

H.1. TID (5400) URO ULTRASOUND REPORT

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Comment	Value Set Constraint
1			CONTAINER	DT (125100, DCM, "Urology Ultrasound Procedure Report")			
2	>	HAS OBS CONTEXT	INCLUDE				

7	>	CONTAINS	INCLUDE	DTID (5105) URO Ultrasound Section			$Measurement=prostate_2; $Measurement=rar; $Measurement=uro2; $Measurement=uro21; $Measurement=uro;
8	>	CONTAINS	INCLUDE	DTID (kidney_group) Vascular Ultrasound Sectiond			$SectionScope=kidney_vol
[redacted]	>	CONTAINS	INCLUDE	DTID (ureter3) Vascular Ultrasound Sectiond	[redacted]		[redacted]difier=12116

						Module	
7	>	HAS OBS CONTEXT	DATE	EV(121031,DCM,		Date (0010,0030) in Patient Module	
8	>	HAS OBS CONTEXT	CODE	EV(121032,DCM, "Su		value equivalent to (0010,0040) in Patient Module	
9	>	HAS OBS CONTEXT	NUM	EV(121033,DCM,		(0010,1010) in Patient Study Module	

H.3. TID (0101a) URO Patient Characteristics

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	EV (121118, DCM, “Patient Characteristics”)		Units = DCID (7456) Units of Measure for Age	
2	>	CONTAINS	NUM	EV (121033, DCM, "Subject Age”)		DCID (7455) Sex	
3	>	CONTAINS	CODE	EV (121032, DCM, "Subject Sex”)			
4	>	CONTAINS	NUM	EV (8302-2, LN, “Patient Height”)			
5	>	CONTAINS	NUM	EV (29463-7, LN, “Patient Weight”)			
6	>	CONTAINS	NUM	EV (F-01860, SRT, “Body Mass INdex”)			

H.4. TID (5103) URO ULTRASOUND SECTION

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	DT (121070, DCM, “Findings”)	1	M		
2	>	HAS CONCEPT MOD	MODCODE	EV (G-C0E3, SRT, “Finding Site”)	1	M		$SectionScope
3	>	HAS CONCEPT	MODCODE	EV (G-C171, SRT,	**1**	M		$SectionLaterality =EV (G-A101, -A100,
4	>	CONTAINS	INCLUDE	DTID 5104 URO ULTRASOUND SECTION				$AnatomyGroup = 12115_nolr; $SectionLaterality=$SectionLaterality; $Modifier = 12116

H.5. TID (5104) URO ULTRASOUND SECTION

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1	>	HAS CONCEPT	MODCODE	EV (G-A1F8, SRT, Topographical Modifier	1	U		$Modifier

H.6. TID (5105) URO 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	MODCODE	EV (G-C171, SRT,	1	M		$Laterality
3	>	HAS CONCEPT	MODCODE	EV (G-A1F8, SRT, "Topographical Modifier")	1	U		$Modifier
3	>	CONTAINS	INCLUDE	CID (300) URO Measurements	1-n	U		

H.7. TID(rar) URO 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	MODCODE	EV (G-C171, SRT,	1	M		$Laterality
3	>	CONTAINS	INCLUDE	CID (300) URO Measurements	1-n	U		$Measurement=rar;$Laterality=$Laterality

H.8. TID(5401) Ultrasound Shear Wave Elastography Section

NL	Rel with Parent	VT	Concept Name	Used in MODALITY

1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV 121058, DCM, "Procedure reported"		DT (448764002, SCT, "Ultrasound elastography (procedure) "	
3	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,		T-92000,SCT,Prostate	
4	>	HAS CONCEPT MOD	CODE	EV (130759, DCM, "Shear Wave Detection Method")		130756,DCM,"Particle Displacement Method	
5	>	CONTAINS	INCLUDE	DTID (5402) Shear Wave Elastography Measurement		$Prefix= elas_meas_uro	

H.9. TID(5402) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121111, DCM, Summary)			
2	>	CONTAINS	INCLUDE	DTID(elas_group_cs)			

6	>	CONTAINS	INCLUDE	DTID (elas_group_disp		$STEN = 110835,MRUS,""Shear Wave Dispersion Slope disp";$Prefix=$Prefix	
7	>	CONTAINS	INCLUDE	DTID (elas_group_u)		$STEN = 110836,MRUS,""Shear Wave Dispersion Slope none";$Prefix=$Prefix	

H.10. TID(elas_group_cs) Shear Wave Elastography Measurement

This is a private template referenced by TID(5402)

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (130611,DCM,""Shear Wave Speed")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_cs_quilifier	

H.11. TID (elas_group_e) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (110830,DCM,"Elasticity")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAI	INCLUDE	DTID(elas_item)		$Measurement	

		NS				=elas_tail;$Prefix=$Prefix;$Qualifier= elas_e_quilifier	

H.12. TID (elas_group_g) Shear Wave Elastography Measurement

This is a private template referenced by TID(5402)

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (110833,MRUS,"Shear Modulus")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_g_quilifier	

H.13. TID (elas_group_visco) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (110834,MRUS,"Shear Wave Dispersion Slope visco")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_ visco_quilifier	

H.14. TID (elas_group_disp) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (110835,MRUS,"Shear Wave Dispersion Slope disp")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_ disp_quilifier	

H.15. TID (elas_group_u) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (110836,MRUS,"Shear Wave Dispersion Slope none")			
2	>	HAS CONCEPT MOD	CODE	EV(G-C0E3, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_ u_quilifier	

H.16. TID (elas_item

5	>	CONTAINS	INCLUDE	DTID (rct) Measurement			$Laterality=$SectionLaterality; $Modifier=12116

H.19. TID(kidney_group) URO Ultrasound Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,			DT (T-71000,
3	>	CONTAINS	INCLUDE	DTID (kidney_meas) Measurement			$SectionScope = $SectionScope;

H.20. TID(kidney_meas) URO Ultrasound Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (125007, DCM,			
2	>	CONTAINS	INCLUDE	DTID (300t) Measurement			$Measurement = G-D7FE,SRT,Length; $Prefix=$SectionScope;

H.21. TID(uro_group) URO Ultrasound Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,			DT (T-71000,
3	>	CONTAINS	INCLUDE	DTID (uro_meas) Measurement			$SectionScope = $SectionScope; $Laterality=$Laterality

H.22. TID(uro_meas) URO Ultrasound Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (125007, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT, "Laterality")			$Laterality
3	>	CONTAINS	INCLUDE	DTID (300t) Measurement			$Measurement = G-D7FE,SRT,Length; $Prefix=$SectionScope; $Laterality=$Laterality
4	>	CONTAINS	INCLUDE	DTID (300t) Measurement			$Measurement = G-A220,SRT,Width; $Prefix=$SectionScope; $Laterality=$Laterality
5	>	CONTAINS	INCLUDE	DTID (300t) Measurement			$Measurement = 121207,DCM,Height; $Prefix=$SectionScope; $Laterality=$Laterality

6	>	CONTAINS	INCLUDE	DTID (300t) Measurement			$Measurement = G-D705,SRT,Volume; $Prefix=$SectionScope; $Laterality=$Laterality
7	>	CONTAINS	INCLUDE	DTID (300t) Measurement			$Measurement = G-D785,SRT,Depth; $Prefix=$SectionScope; $Laterality=$Laterality

H.23. TID(rct) URO Ultrasound 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-A1F8, SRT, "Topographical Modifier")			$Modifier
3	>	CONTAINS	INCLUDE	DTID (300a) Measurement			"$Measurement = ""MT-71000-04,MRUS,Renal Cortical Thickness"";$Laterality=$Laterality";$Modifier=$Modifier

H.24. TID (ureter3) Vascular Ultrasound Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEP	CODE	EV (G-A1F8, SRT,			$Modifier

		T MOD		"Topographical Modifier")			
3	>	CONTAINS	INCLUDE	DTID (300a) Measurement			$Measurement=ureter3;$Modifier=$Modifier

H.25. TID(5103-12115-nolr) Vascular Ultrasound Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121070,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, g			DT (T-71000, Kindney
3	>	CONTAINS	INCLUDE	DTID (5104) Measurement			$AnatomyGroup = 12115_nolr; $SectionLaterality=US1W* nE

5	>	CONTAINS	INCLUDE	DTID (300) Measurement		Measurement=ABD_Aorta;$Modifier=$Modifier

H.27. CID(rar) URO Measurements

CSD	CV	Code Meaning
MRUS	MT-94000-31	RAR Arcuate A Transplant 1
MRUS	MT-94000-32	RAR Arcuate A Transplant 2
MRUS	MT-94000-33	RAR Hilum Transplant 1
MRUS	MT-94000-34	RAR Hilum Transplant 2
MRUS	MT-94000-35	RAR Interlobar A Transplant 1
MRUS	MT-94000-36	RAR Interlobar A Transplant 2
MRUS	MT-94000-37	RAR Renal A Transplant 1
MRUS	MT-94000-38	RAR Renal A Transplant 2
MRUS	MT-94000-39	RAR Renal A1 Transplant 1
MRUS	MT-94000-40	RAR Renal A1 Transplant 2
MRUS	MT-94000-41	RAR Renal A2 Transplant 1
MRUS	MT-94000-42	RAR Renal A2 Transplant 2
MRUS	MT-94000-43	RAR Segmental A Transplant 1
MRUS	MT-94000-44	RAR Segmental A Transplant 2

H.28. CID(300) URO Measurements

CSD	CV	Code Meaning
SRT	G-D785	Depth
SRT	G-A220	Width
DCM	122445	Wall Thickness
SRT	G-D705	Volume
DCM	121207	Height
SRT	G-D7FE	Length
MRUS	MT-94000-01	Testicular Mass1 d1
MRUS	MT-94000-02	Testicular Mass1 d2
MRUS	MT-94000-03	Testicular Mass1 d3
MRUS	MT-94000-04	Testicular Mass2 d1
MRUS	MT-94000-05	Testicular Mass2 d2

CSD	CV	Code Meaning
MRUS	MT-94000-06	Testicular Mass2 d3
MRUS	MT-94000-07	Testicular Mass3 d1
MRUS	MT-94000-08	Testicular Mass3 d2
MRUS	MT-94000-09	Testicular Mass3 d3
MRUS	CT-74000-03	Micturated Volume
MRUS	CT-74000-04	PPSA
MRUS	MT-73000-07	Renal V Diam Renal Transplant 1
MRUS	MT-73000-08	Renal V Diam Renal Transplant 2
MRUS	MT-45210-05	Scrotal Wall Thickness
MRUS	MT-73000-05	RCT Renal Transplant 1
MRUS	MT-73000-06	RCT Renal Transplant 2
MRUS	T-91000-50	Testis V 2D
MRUS	T-91000-51	Testis V Valsalva 2D
MRUS	V12115-05	Renal Vein 2 Transplant 2
MRUS	V12115-04	Renal Vein 1 Transplant 2
MRUS	A12115-19	Segmental A Transplant 2
MRUS	A12115-18	Arcuate A Transplant 2
MRUS	A12115-17	Interlobar A Transplant 2
MRUS	A12115-16	Hilum Transplant 2
MRUS	A12115-15	Renal A2 Transplant 2
MRUS	A12115-14	Renal A1 Transplant 2
MRUS	A12115-13	Renal A Transplant 2
MRUS	V12115-03	Renal Vein 2 Transplant 1
MRUS	V12115-02	Renal Vein 1 Transplant 1
MRUS	A12115-12	Segmental A Transplant 1
MRUS	A12115-11	Arcuate A Transplant 1
MRUS	A12115-10	Interlobar A Transplant 1
MRUS	A12115-9	Hilum Transplant 1
MRUS	A12115-8	Renal A2 Transplant 1
MRUS	A12115-7	Renal A1 Transplant 1
MRUS	A12115-6	Renal A Transplant 1
MRUS	A12115-24	Artery Anast Transplant 1
MRUS	MT-45210-09	Testis Vein Valsalva
MRUS	MT-45210-08	Epididymis Artery

CSD	CV	Code Meaning
MRUS	MT-45210-07	Epididymis Vein
MRUS	MT-45210-06	Testis Artery

H.29. CID(ureter3) URO Measurements

CSD	CV	Code Meaning
MRUS	MT-73000-02	Ureter Diam Renal Transplant 1
MRUS	MT-73000-03	Ureter Diam Renal Transplant 2

H.30. CID(12115_nolr) Renal Vessels

CSD	CV	Code Meaning
MRUS	V12115-06	Vein Anast Transplant 1
MRUS	V12115-07	Vein Anast 2 Transplant 1
MRUS	A12115-24	Artery Anast Transplant 1
MRUS	A12115-22	Artery Anast Transplant 2
MRUS	A12115-21	Artery 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
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
MRUS	A12115-6	Renal A Transplant 1
MRUS	A12115-7	Renal A1 Transplant 1
MRUS	A12115-8	Renal A2 Transplant 1
MRUS	A12115-9	Hilum Transplant 1
MRUS	A12115-10	Interlobar A Transplant 1
MRUS	A12115-11	Arcuate A Transplant 1
MRUS	A12115-12	Segmental A Transplant 1
MRUS	V12115-02	Renal Vein 1 Transplant 1
MRUS	V12115-03	Renal Vein 2 Transplant 1
MRUS	M31431701	Renal.Vein.Transplant.1

CSD	CV	Code Meaning

CSD	CV	Code Meaning
MRUS	M31393506	Epididymal.Finding3

H.32. CID (kidney_vol) URO Measurements

CSD	CV	Code Meaning
MRUS	T-91000-30	Kidney Renal Transplant 1
MRUS	T-91000-31	Kidney Renal Transplant 2
MRUS	T-91000-32	Adrenal Renal Transplant 1
MRUS	T-91000-33	Adrenal Renal Transplant 2
MRUS	T-91000-33	Renal Transplant 1 Finding 1
MRUS	T-91000-34	Renal Transplant 1 Finding 2
MRUS	T-91000-35	Renal Transplant 1 Finding 3
MRUS	T-91000-36	Renal Transplant 1 Finding 4
MRUS	T-91000-37	Renal Transplant 1 Finding 5
MRUS	T-91000-38	Renal Transplant 1 Finding 6
MRUS	T-91000-39	Renal Transplant 2 Finding 1
MRUS	T-91000-40	Renal Transplant 2 Finding 2
MRUS	T-91000-41	Renal Transplant 2 Finding 3
MRUS	T-91000-42	Renal Transplant 2 Finding 4
MRUS	T-91000-43	Renal Transplant 2 Finding 5
MRUS	T-91000-44	Renal Transplant 2 Finding 6
MRUS	M31370706	Hepatic.Finding.1
MRUS	M31370906	Hepatic.Finding.2
MRUS	M31371106	Hepatic.Finding.3
MRUS	M31378506	Prostate.Finding1
MRUS	M31378706	Prostate.Finding2
MRUS	M31378906	Prostate.Finding3

H.33. CID(uro21) URO Measurements

CSD	CV	Code Meaning
MRUS	MT-73000-05	RCT Renal Transplant 1
MRUS	MT-73000-06	RCT Renal Transplant 2

H.34. CID(uro2) URO Measurements

CSD	CV	Code Meaning
SRT	T-35410	Aortic Valve Ring
MRUS	M12204-19	Aortic Valve Area
LN	79965-0	Aortic valve VTI
MRUS	T-35200-2	Pulmonic Valve Area
MRUS	T-F6845-1	Ductus arteriosus Vmax
MRUS	T-F6845-2	Ductus arteriosus Time to Peak
MRUS	T-F6845-3	Ductus arteriosus VTI
MRUS	T-35400-1	AVE
MRUS	T-35300-2	Mitral annular plane systolic excusion
LN	77903-3	Tricuspid annular plane systolic excusion
MRUS	T-35300-3	Mitral Valve E-Wave Peak Velocity(TDI)
MRUS	T-35300-4	Mitral Valve A-Wave Peak Velocity(TDI)
MRUS	T-35300-5	Mitral Valve S-Wave Peak Velocity(TDI)
MRUS	T-35100-2	Tricuspid Valve E Wave Peak Velocity(TDI)
MRUS	T-35100-3	Tricuspid Valve A Wave Peak Velocity(TDI)
MRUS	T-35100-4	Tricuspid Valve S Wave Peak Velocity(TDI)
SRT	G-037E	Left Ventricular Isovolumic Contraction Time
LN	18071-1	Left Ventricular Isovolumic Relaxation Time
MRUS	M12240-07	Left Ventricular Ejection Time
MRUS	M12204-14	Right Ventricular Isovolumic Contraction Time
MRUS	M12204-15	Right Ventricular Isovolumic Relaxation Time
MRUS	M12204-16	Right Ventricular Ejection Time
MRUS	M12240-08	Left Ventricular EDV
MRUS	M12204-17	Right Ventricular EDV
MRUS	T-35300-6	Mitral valve E-to-E' ratio

CSD	CV	Code Meaning
MRUS	CT-35100-2	Tricuspid Valve E-to-E' ratio
MRUS	T-F6845-2-1	Ductus arteriosus Time to Peak

H.36. CID(ABD107) Abdomen Measurements

CSD	CV	Code Meaning
MRUS	MT-71000-01	Adrenal Height
MRUS	MT-71000-02	Adrenal Length
MRUS	MT-71000-03	Adrenal Width
MRUS	CT-71000-04	Adrenal Volume
MRUS	M31419304	Adrenal Length
MRUS	M31419305	Adrenal Width
MRUS	M31419306	Adrenal Height
MRUS	M31419307	Adrenal Volume
MRUS	M31419304	Adrenal Finding Length
MRUS	M31419305	Adrenal Finding Width
MRUS	M31419306	Adrenal Finding Height
MRUS	M31419307	Adrenal Finding Volume
MRUS	MT-71000-05	Renal Height
MRUS	MT-71000-06	Renal Length
MRUS	MT-71000-07	Renal Width
MRUS	CT-71000-01	Renal Volume
MRUS	CT-71000-02	Renal Volume1
MRUS	MT-71000-08	Renal Lesion1 L
MRUS	MT-71000-09	Renal Lesion1 H
MRUS	MT-71000-10	Renal Lesion1 W
MRUS	MT-71000-29	Renal Lesion1 Volume
MRUS	MT-71000-11	Renal Lesion2 L
MRUS	MT-71000-12	Renal Lesion2 H
MRUS	MT-71000-13	Renal Lesion2 W
MRUS	MT-71000-30	Renal Lesion2 Volume
MRUS	MT-71000-14	Renal Lesion3 L
MRUS	MT-71000-15	Renal Lesion3 H
MRUS	MT-71000-16	Renal Lesion3 W
MRUS	MT-71000-31	Renal Lesion3 Volume

Epididymis.L	G-D7FE,SRT,Length
Epididymis.W	122445,DCM,Wall Thickness
Testis.Mass1.L	MT-94000-01,MRUS,Testicular Mass1 L
Testis.Mass1.H	MT-94000-02,MRUS,Testicular Mass1 H
Testis.Mass1.W	MT-94000-03,MRUS,Testicular Mass1 W
Testis.Mass2.L	MT-94000-04,MRUS,Testicular Mass2 L
Testis.Mass2.H	MT-94000-05,MRUS,Testicular Mass2 H
Testis.Mass2.W	MT-94000-06,MRUS,Testicular Mass2 W
Testis.Mass3.L	MT-94000-07,MRUS,Testicular Mass3 L
Testis.Mass3.H	MT-94000-08,MRUS,Testicular Mass3 H
Testis.Mass3.W	MT-94000-09,MRUS,Testicular Mass3 W
Testis.Mass1.Volume	CT-94000-01,MRUS,Testicular Mass1 Volume
Testis.Mass2.Volume	CT-94000-02,MRUS,Testicular Mass2 Volume
Testis.Mass3.Volume	CT-94000-03,MRUS,Testicular Mass3 Volume
Testis.V.2D	T-91000-50,MRUS,Testis V 2D
Testis.V.Valsalva.2D	T-91000-51,MRUS,Testis V Valsalva 2D
Prostate.Mass1.L	MT-94000-11,MRUS,Prostate Mass1 L
Prostate.Mass1.H	MT-94000-12,MRUS,Prostate Mass1 H
Prostate.Mass1.W	MT-94000-13,MRUS,Prostate Mass1 W
Prostate.Mass2.L	MT-94000-14,MRUS,Prostate Mass2 L
Prostate.Mass2.H	MT-94000-15,MRUS,Prostate Mass2 H
Prostate.Mass2.W	MT-94000-16,MRUS,Prostate Mass2 W
Prostate.Mass3.L	MT-94000-17,MRUS,Prostate Mass3 L
Prostate.Mass3.H	MT-94000-18,MRUS,Prostate Mass3 H
Prostate.Mass3.W	MT-94000-19,MRUS,Prostate Mass3 W
Prostate.Mass1.Volume	CT-94000-11,MRUS,Prostate Mass1 Volume
Prostate.Mass2.Volume	CT-94000-12,MRUS,Prostate Mass2 Volume
Prostate.Mass3.Volume	CT-94000-13,MRUS,Prostate Mass3 Volume
Prostate2.AP	MT-94000-20,MRUS,Prostate 2 AP
Prostate2.Coronal	MT-94000-21,MRUS,Prostate 2 Coronal
Prostate2.Long	MT-94000-22,MRUS,Prostate 2 Long
Prostate2.Volume	CT-94000-23,MRUS,Prostate 2 Volume
Scrotal.Wall.T	MT-45210-05,MRUS,Scrotal Wall Thickness
RCT.Renal.Transplant.1	MT-73000-05,MRUS,RCT Renal Transplant 1
RCT.Renal.Transplant.2	MT-73000-06,MRUS,RCT Renal Transplant 2

Renal.V.Diam.Renal.Transplant.1	MT-73000-07,MRUS,Renal V Diam Renal Transplant 1
Renal.V.Diam.Renal.Transplant.2	MT-73000-08,MRUS,Renal V Diam Renal Transplant 2
T.Zone.L	MT-94000-24,MRUS,T Zone L
T.Zone.H	MT-94000-25,MRUS,T Zone H
T.Zone.W	MT-94000-26,MRUS,T Zone W
T.Zone.Vol	CT-94000-27,MRUS,T Zone Vol
RAR.Arcuate.A.Transplant.1	MT-94000-31,MRUS,RAR Arcuate A Transplant 1
RAR.Arcuate.A.Transplant.2	MT-94000-32,MRUS,RAR Arcuate A Transplant 2
RAR.Hilum.Transplant.1	MT-94000-33,MRUS,RAR Hilum Transplant 1
RAR.Hilum.Transplant.2	MT-94000-34,MRUS,RAR Hilum Transplant 2
RAR.Interlobar.A.Transplant.1	MT-94000-35,MRUS,RAR Interlobar A Transplant 1
RAR.Interlobar.A.Transplant.2	MT-94000-36,MRUS,RAR Interlobar A Transplant 2
RAR.Renal.A.Transplant.1	MT-94000-37,MRUS,RAR Renal A Transplant 1
RAR.Renal.A.Transplant.2	MT-94000-38,MRUS,RAR Renal A Transplant 2
RAR.Renal.A1.Transplant.1	MT-94000-39,MRUS,RAR Renal A1 Transplant 1
RAR.Renal.A1.Transplant.2	MT-94000-40,MRUS,RAR Renal A1 Transplant 2
RAR.Renal.A2.Transplant.1	MT-94000-41,MRUS,RAR Renal A2 Transplant 1
RAR.Renal.A2.Transplant.2	MT-94000-42,MRUS,RAR Renal A2 Transplant 2
RAR.Segmental.A.Transplant.1	MT-94000-43,MRUS,RAR Segmental A Transplant 1
RAR.Segmental.A.Transplant.2	MT-94000-44,MRUS,RAR Segmental A Transplant 2

H.38.1. URO Elastography Measurements

MODALITY Label	***DICOM Mapping***
URO.Prostate.Mass1.Strain	ME10000-128,MRUS,Prostate Mass1 Strain
URO.Prostate.Mass2.Strain	ME10000-129,MRUS,Prostate Mass2 Strain
URO.Prostate.Mass3.Strain	ME10000-130,MRUS,Prostate Mass3 Strain
URO.Prostate.Mass1.Elas	ME10000-131,MRUS,Prostate Mass1 Elas

URO.Prostate.Elas.HP	ME10000-140,MRUS,Prostate Elas HP
URO.Prostate.Elas.SP	ME10000-141,MRUS,Prostate Elas SP
URO.Prostate.Mass1.StrRt	ME10000-142,MRUS,Prostate Mass1 StrRt
URO.Prostate.Mass2.StrRt	ME10000-143,MRUS,Prostate Mass2 StrRt
URO.Prostate.Mass3.StrRt	ME10000-144,MRUS,Prostate Mass3 StrRt
URO.Prostate.Mass1.ERt	ME10000-145,MRUS,Prostate Mass1 ERt
URO.Prostate.Mass2.ERt	ME10000-146,MRUS,Prostate Mass2 ERt
URO.Prostate.Mass3.ERt	ME10000-147,MRUS,Prostate Mass3 ERt
Shell.A.Max	MRUS TCE10000-0,Shell A Max
Shell.A.Mean	MRUS TCE10000-1Shell A Mean
Shell.A.Min	MRUS TCE10000-2Shell A Min
Shell.A.SD	MRUS TCE10000-3Shell A SD
Ratio.Area.A1.A	MRUS TCE10000-4Ratio Area A1 A
Ratio.Diam.A1.A	MRUS TCE10000-5Ratio Diam A1 A
STVi.Ratio.Mean	MRUS TCE10000-6STVi Ratio Mean
STVi.Ratio.Max	MRUS TCE10000-7STVi Ratio Max
STVi.Ratio.Min	MRUS TCE10000-8STVi Ratio Min
STVi.Ratio.SD	MRUS TCE10000-9STVi Ratio SD
A.B	MRUS TCE10000-11 A B
A1.B	MRUS TCE10000-12 A1 B
Shell.A	MRUS TCE10000-13 Shell A
Shell.B	MRUS TCE10000-14 Shell B
STVi.A.B	MRUS TCE10000-17 STVi A B
STVi.A1.B	MRUS TCE10000-18 STVi A1 B
STVi.Shell.A	MRUS TCE10000-19 STVi Shell A
STVi.Shell.B	MRUS TCE10000-20 STVi Shell B
B.A	MRUS TCE10000-27 B A
B.A1	MRUS TCE10000-28 B A1
A.Shell	MRUS TCE10000-29 A Shell
B.Shell	MRUS TCE10000-30 B Shell
B.A.1	MRUS TCE10000-33 B A 1
A.Shell.1	MRUS TCE10000-34 A Shell 1
B.Shell.1	MRUS TCE10000-35 B Shell 1
B.A1.1	MRUS TCE10000-36 B A1 1
Ratio.Area.A1.A.1	MRUS TCE10000-37 Ratio Area A1 A 1

B.A.2	MRUS	TCE10000-38	B A 2
A.Shell.2	MRUS	TCE10000-39	A Shell 2
B.Shell.2	MRUS	TCE10000-40	B Shell 2
B.A1.2	MRUS	TCE10000-41	B A1 2
Ratio.Area.A1.A.2	MRUS	TCE10000-42	Ratio Area A1 A 2
B.A.3	MRUS	TCE10000-43	B A 3
A.Shell.3	MRUS	TCE10000-44	A Shell 3
B.Shell.3	MRUS	TCE10000-45	B Shell 3
B.A1.3	MRUS	TCE10000-46	B A1 3
Ratio.Area.A1.A.3	MRUS	TCE10000-47	Ratio Area A1 A 3
Depth	MRUS	TME10000-0	Depth
Diam	MRUS	TME10000-1	Diam
Elas.Mean	MRUS	TME10000-2	Elas Mean
Elas.Max	MRUS	TME10000-3	Elas Max
Elas.Min	MRUS	TME10000-4	Elas Min
Elas.SD	MRUS	TME10000-5	Elas SD
Elas.RLBIndex	MRUS	TME10000-6	Elas RLBIndex
STVi.A.Mean	MRUS	TME10000-7	STVi A Mean
STVi.A.Max	MRUS	TME10000-8	STVi A Max
STVi.A.Min	MRUS	TME10000-9	STVi A Min
STVi.A.SD	MRUS	TME10000-10	STVi A SD
A.Max	MRUS	TME10000-11	A Max
A.Mean	MRUS	TME10000-12	A Mean
A.Min	MRUS	TME10000-13	A Min
A.SD	MRUS	TME10000-14	A SD
A1.Max	MRUS	TME10000-15	A1 Max
A1.Mean	MRUS	TME10000-16	A1 Mean

A1.RLBIndex	MRUS	TME10000-25	A1 RLBIndex
Shell.RLBIndex	MRUS	TME10000-26	Shell RLBIndex
A1.Diam	MRUS	TME10000-27	A1 Diam
A.Area	MRUS	TME10000-28	A Area
A1.Area	MRUS	TME10000-29	A1 Area
STVi.Shell.Mean	MRUS	TME10000-34	STVi Shell Mean
STVi.Shell.Max	MRUS	TME10000-35	STVi Shell Max
STVi.Shell.Min	MRUS	TME10000-36	STVi Shell Min
STVi.Shell.SD	MRUS	TME10000-37	STVi Shell SD
STVi.A1.Mean	MRUS	TME10000-38	STVi A1 Mean
STVi.A1.Max	MRUS	TME10000-39	STVi A1 Max
STVi.A1.Min	MRUS	TME10000-40	STVi A1 Min
STVi.A1.SD	MRUS	TME10000-41	STVi A1 SD
A	MRUS	TME10000-58	A
B	MRUS	TME10000-59	B
A1	MRUS	TME10000-60	A1
Shell	MRUS	TME10000-61	Shell
A.Diam	MRUS	TME10000-62	A Diam
B.Diam	MRUS	TME10000-63	B Diam
B.RLBIndex	MRUS	TME10000-66	B RLBIndex
B.Area	MRUS	TME10000-70	B Area
STVi.B.Mean	MRUS	TME10000-73	STVi B Mean
A.1	MRUS	TME10000-102	A 1
Shell.1	MRUS	TME10000-103	Shell 1
A1.1	MRUS	TME10000-104	A1 1
A.Diam.1	MRUS	TME10000-105	A Diam 1
A.Area.1	MRUS	TME10000-106	A Area 1
A1.Area.1	MRUS	TME10000-107	A1 Area 1
A.2	MRUS	TME10000-108	A 2
Shell.2	MRUS	TME10000-109	Shell 2
A1.2	MRUS	TME10000-110	A1 2
A.Diam.2	MRUS	TME10000-111	A Diam 2
A.Area.2	MRUS	TME10000-112	A Area 2
A1.Area.2	MRUS	TME10000-113	A1 Area 2
A.3	MRUS	TME10000-114	A 3

Shell.3	MRUS	TME10000-115	Shell 3
A1.3	MRUS	TME10000-116	A1 3
A.Diam.3	MRUS	TME10000-117	A Diam 3
A.Area.3	MRUS	TME10000-118	A Area 3
A1.Area.3	MRUS	TME10000-119	A1 Area 3

I. Appendix : OB Measurements supporting Viewpoint

I.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

I.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

I.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 ,Aortic Valve	99914-5 GEK,TPV
LVOT Diam	GEK ,99915-1, LVOT	99915-2, GEK ,LVOT Diam
LVOT Area	GEK ,99915-1, LVOT	99915-3, GEK ,LVOT Area

I.4. Other Fetal Cardiac Measurements

Measurement	*DICOM Mapping*	*Measurement Method*
MVE	99906-14, GEK ,Mitral Valve open exc.	GEK ,99906-1, 4-Chamber-view M-Mode
TVE	99906-15, GEK ,Tricuspid Valve open exc.	GEK ,99906-1, 4-Chamber-view M-Mode

I.5. Other Measurements

Measurement
UT L
UT H
UT W
Endo
Cervix L
Ovary L
Ovary H
Ovary W

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
HC(c)
HrtC/TC
TCD/AC
LVW/HW