DICOM CONFORMANCE STATEMENT

FOR

Resona A20 series

DIAGNOSTIC ULTRASOUND SYSTEM

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PACS	Picture Archiving and Communication System
PDU	Protocol Data Unit
R	Required (Key Attribute)
RIS	Radiology Information System
SCP	Service Class Provider
SCU	Service Class User
SOP	Service Object Pair
SR	Structured Reporting
TCP/IP	Transmission Control Protocol/Internet Protocol
U	Unique (Key Attribute)
UL	Upper Layer
VR	Value Representation
US	Ultrasound
UID	Unique Identifier

3.6 References

DICOM Quick Guide & FAQ, Revision 1.0 Final Text, Mindray Co. Ltd

Digital Imaging and Communications in Medicine (DICOM), NEMA PS 3, available free at

,

	08.1.1	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

4.2.1.3.1.3SOP Specific Conformance

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

Table 11

Verification C-Echo Response Status Handling Behavior

Service Status	Further Meaning

		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.

(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

(0008,0104)	LO	1C	>>Code Meaning	MWL

Table 25

Enhanced US Series Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0008,0060)	CS	1	Modality	US
(0008,1111)	SQ	1C	Referenced Performed Procedure Step Sequence	MPPS
(0040,0260)	SQ	1C	Performed Protocol Code Sequence	MWL

Table 26

Frame of Reference Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0020,0052)	UI	1	Frame of Reference UID	AUTO
(0020,1040)	LO	2	Position Reference Indicator	Set to zero length

Table 27

Ultrasound Frame of Reffrence Module

ATTRIBUTE	VR	TYPE	ATTRIBUTE NAME	VALUE(S) AND COMMENTS
(0020,9312)	UI	1	Volume Frame of Reference UID	AUTO
(0020,9307)	CS	1	Ultrasound Acquisition Geometry	APEX
(0020,9308)	FD	1C	Apex Position	Position of the apex (or phase center) of the

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

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 or
(0018,980B)	CS	1	>>Aliased Data Type	NO
(0020,0013)	IS	1	Instance Number	AUTO
(0008,0023)	DA	1	Content Date	AUTO
(0008,0033)	TM	1	Content Time	AUTO
(0028,0008)	IS	1	Number of Frames	AUTO

(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

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

Tags supported for an N-Event-Report message.

Table 55

Storage Commitment N-Event-Report Message Contents

EVENT TYPE NAME	EVENT TYPE ID	ATTRIBUTE	TAG	REQUIREMENT TYPE SCP
Storage Commitment Request Successful	1	Transaction UID	(0008,1195)	1
		Referenced SOP Sequence	(0008,1199)	1
		>Referenced SOP Class UID	(0008,1150)	1
		>Referenced SOP Instance UID	(0008,1155)	1
Storage Commitment Request Complete Failures Exist	2	Transaction UID	(0008,1195)	1
		Referenced SOP Sequence	(0008,1199)	1
		>Referenced SOP Class UID	(0008,1150)	1

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.

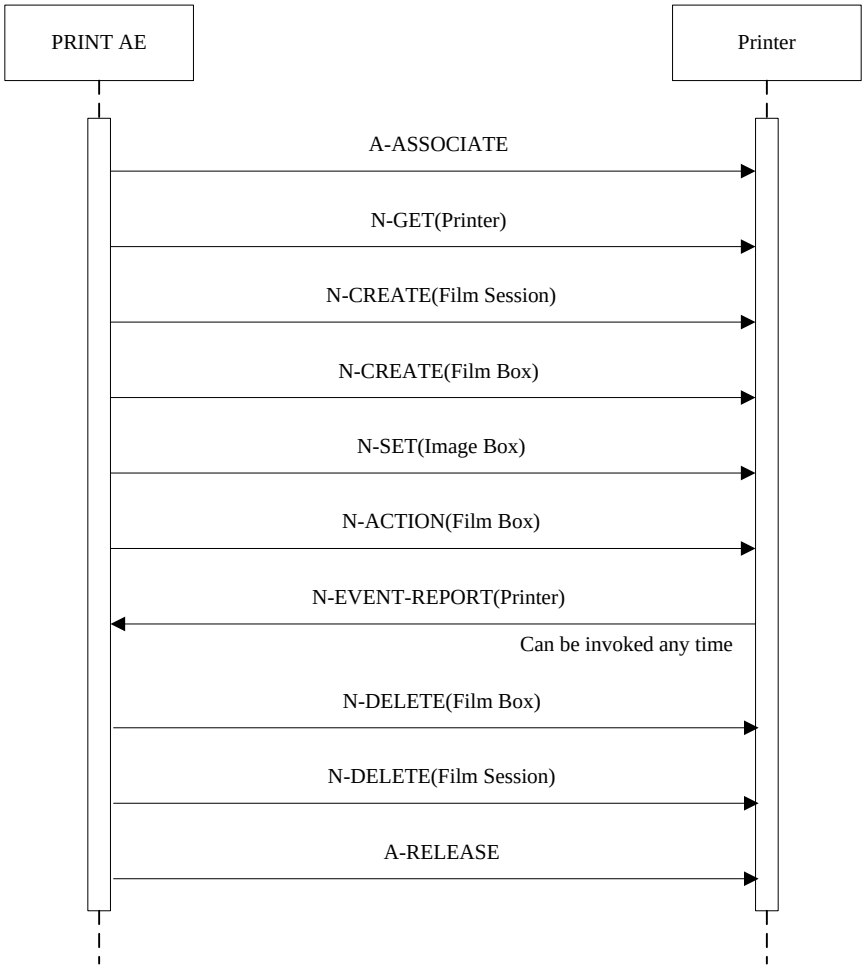

Figure 4
Sequencing of Activity – Film Images

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)

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

4.2.1.3.4.4.2 Printer SOP Class Notifications (N-EVENT-REPORT)

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

Table 60

Printer SOP Class N-Event-Report Behavior

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

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

Table 61

Printer SOP Class N-EVENT-REPORT Response Status Reasons

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

4.2.1.3.4.5 SOP Specific Conformance for the Film Session SOP Class

Print AE

(N-DELETE)

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

Table 64

Printer SOP Class N-

			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

			to the user.

4.2.1.3.4.6.2 Film Box SOP Class Operations (N-ACTION)

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

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

Table 67

Film Box SOP Class N-ACTION Response Status Handling Behavior

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has completed the operation successfully. The film has been accepted for printing.
Warning	Film Box SOP Instance hierarchy does not contain Image Box SOP Instances (empty page)	B603H	The N-ACTION operation is considered successful.
Warning	Image size is larger than Image Box size. The image has been demagnified.	B604H	The N-ACTION operation is considered successful.
Warning	Image size is larger than Image Box size. The image has been cropped to fit.	B609H	The N-ACTION operation is considered successful.
Warning	Image size or Combined Print Image Size is larger than Image Box size. The image or combined Print Image has been decimated to fit.	B60AH	The N-ACTION operation is considered successful.
Warning	Any other warning	xxxx	The N-ACTION operation is considered successful.
Failure	Unable to create Print Job SOP Instance; print queue is full.	C602	The Association is aborted using A-ABORT and the print-job is marked as failed. o161.93 . 1 352.9S

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	[redacted]	If the service is configured as RGB	AUTO
>Samples Per Pixel	(0028,0002)	US		ALWAYS	AUTO
>Photometric Interpretation	(0028,0004)	CS		ALWAYS	CONFIG
>Planar Configuration	(0028,0006)	US	1	ALWAYS	AUTO

>0028,0006 >06

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

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

Table 70

Image Box SOP Class N-SET Response Status Handling Behavior

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	Image print is successful, The status code is logged and the task success is reported to the user via task management.
Warning	Image size is larger than Image Box size. The image has been demagnified.	B604H	The N-SET operation is considered successful.
Warning	Requested Min Density or Max operating range.	B605H	The N-SET operation is considered successful.
Warning	Image size is larger than Image Box size. The image has been cropped to fit.	B609H	The N-SET operation is considered successful.
Warning	Image size or Combined Print Image Size is larger than Image Box size. The image or combined Print Image has been decimated to fit.	B60AH	The N-SET operation is considered successful.
Warning	Any other warning	xxxx	The N-SET operation is considered successful.
Failure	Image size is larger than Image Box size.	C603	The

			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

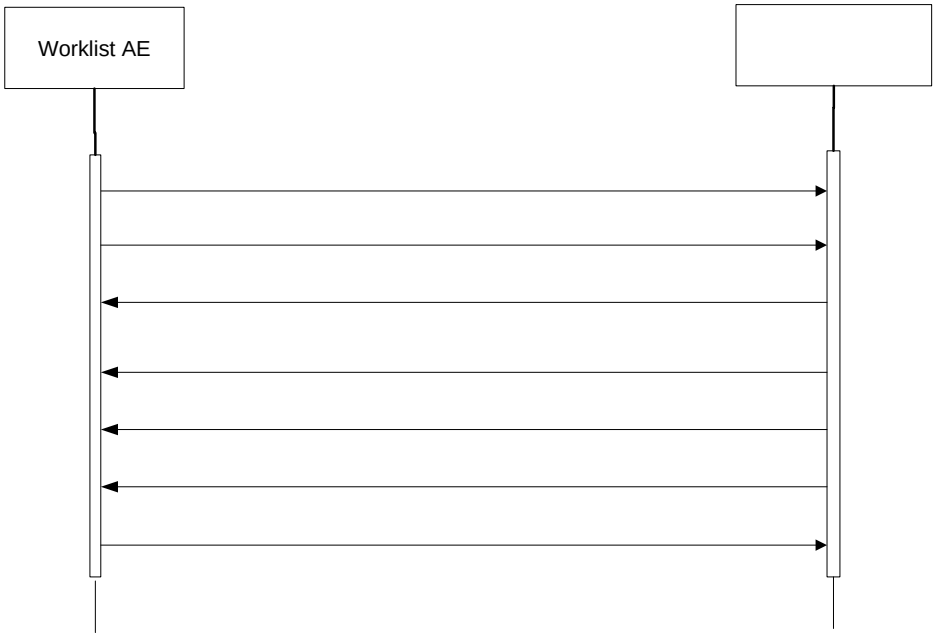

Figure 5

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

Module: Patient Demographic Module (M)				
(0010,0030)	DA	Patient's Birth Date		X(DI)
(0010,0032)	TM	Patient's Birth Time		X(DI)
(0010,0040)	CS	Patient's Sex		X(DI)
(0010,1020)	DS	Patient's Size		X (DI)
(0010,1030)	DS	Patient's Weight		X (DI)
(0010,2160)	SH	Ethnic Group		X (DI)
(0010,4000)	LT	Patient Comments		X (DI)
(0040,3001)	LO	Confidentiality constraint on patient data Description		X (DI)
Module: Patient Medical Module (M)				
(0010,2000)	LO	Medical Alerts		X (DI)
(0010,2110)	LO	Contrast Allergies		X (DI)
(0010,21B0)	US	History		X (DI)
(0010,21C0)	US	Pregnancy Status		X (DI)
(0010,21D0)	DA	Last Menstrual Date		X (DI)
(0038, 0050)	LO	Special Needs		X (DI)
(0038, 0500)	LO	Patient State		X (DI)
Module: Visit Relationship Module (M)				
(0008,1120)	SQ	Referenced Patient Sequence		X (DI)
Module: Visit Identification Module (M)				
(0038,0010)	LO	Admission ID		X (DI)
Module: Visit Status Module (M)				
(0038,0300)	LO	Current Patient Location		X (DI)
Module: Visit Admission Module (M)				
(0008,1080)	LO	Admitting Diagnosis Description		X (DI)
Module: Scheduled Procedure Step Module (M)				
(0040,0100)	SQ	Scheduled Procedure Step Sequence		X (DI)
>(0008,0060)	CS	Modality	Configurable and the	

			default is set to	
>(0032,1070)	LO	Requested Contrast Agent		X (DI)
>(0040,0001)	AE	Scheduled Station AE Title		

		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

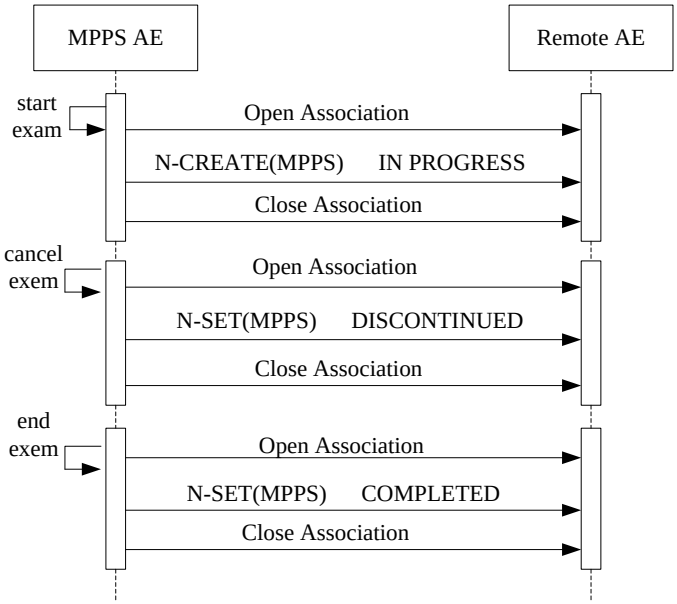

Figure 6

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

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.

4.2.1.3.7 Activity Query/Retrieve from Remote AE

4.2.1.3.7.1 Description and Sequencing of Activities for SCU

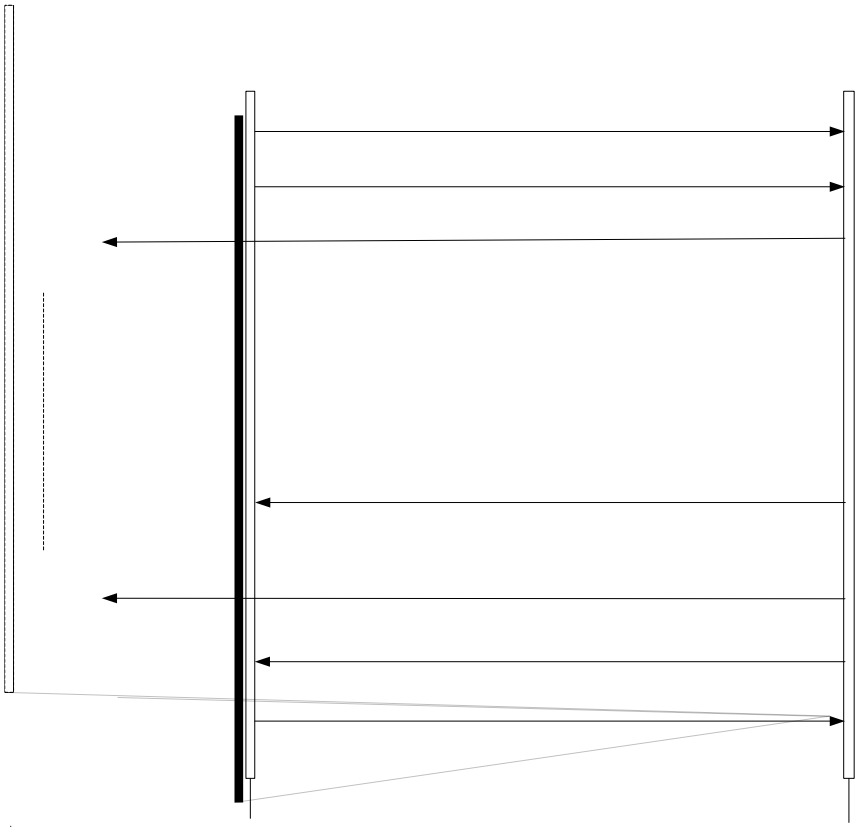

Figure 7

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)

(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

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			

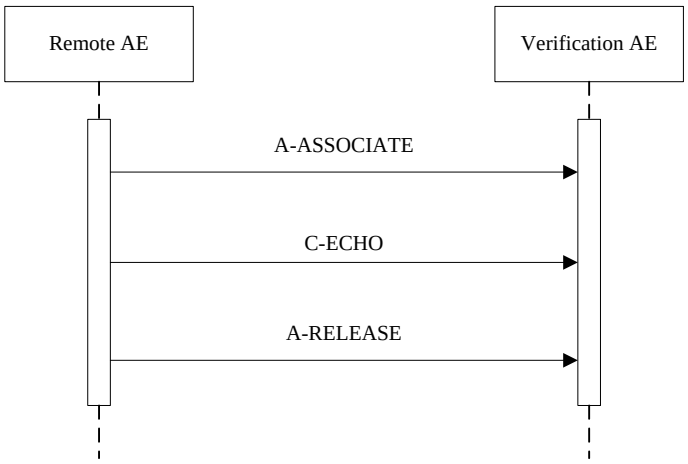

Figure 8
Sequencing of Activity – Receive Echo Request

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.

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					

- 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\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

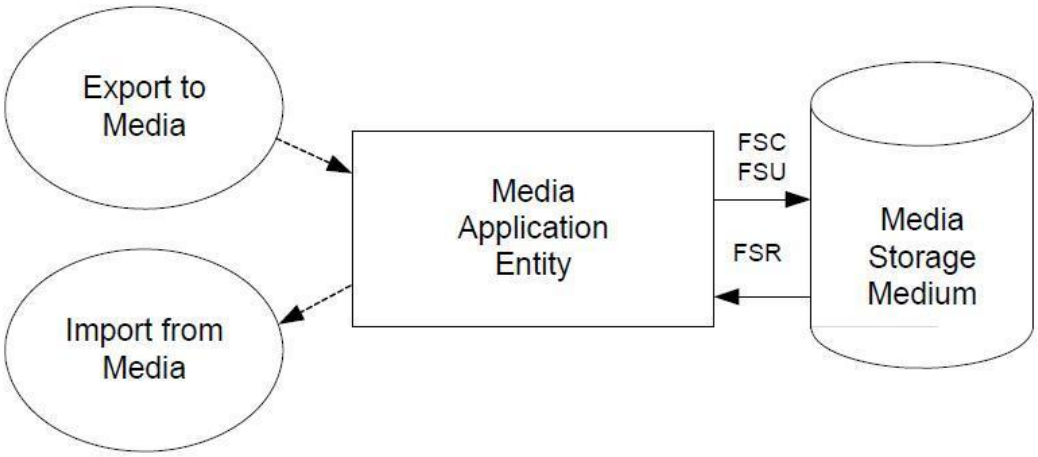

Figure 9

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

5.1.4 File Meta Information Options

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

Table 88
DICOM Implementation Class and Version for Media Storage

Implementation Class UID	1.2.156.112536.1.2169.0.1.0.1
Implementation Version Name	MINDRAY_V1.0

5.2 AE Specifications

5.2.1 Media Application Entity Specification

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

Table 89
Application Profiles, Activities and Roles

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

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

5.2.1.1

p4a St71 0 Snfor2.1.1

		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

(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 unified as UTF-8. As for compatibility of different US series, add Dicom output character which AUTO is default in DICOM preset.AUTO charasets in Table 96 are supported.

Table 96
AUTO Character Set Defined Terms

8.5 Standard extended/specialized/private sop Classes

None.

8.6

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

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

A.3. TID (5000) OB-GYN Ultrasound Procedure Report

This is the template for the root of the content tree for the OB-GYN ultrasound procedure report.

NO	**NL**	**Relation with Parent**	**Value Type**	**Concept Name**	**Used in MODALITY**	**Condition**	**Value Set Constraint**
1			CONTAINER	EV (125000, -GYN Ultrasound Procedure	√		

2 >

19	>	CONTAINS	INCLUDE	DTID (5013_1) Follicles Section	√		$Laterality = EV (G- □ $Number = EV (11879- of smart follicles in left
20	>	CONTAINS	INCLUDE	DTID (5013_1) Follicles Section	√		[redacted]

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 Measurement	(300)	√	$Measurement = EV (M99901-05, Neck Symphyseal

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

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
41	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = EV (M99901-31, Hiatus Lateral Diameter (Valsava
42	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = EV (M99901-32, Hiatus Lateral Diameter

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	INCLUDE	DTID (300) Measurement	√		$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

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

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

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

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

NO	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT (121111, DCM,	√		
2	>	CONTAINS	DATE	11778-			

17	>	CONTAINS	TEXT	(I12101-03, MRUS, "CPT4 Code")	√		from info
18	>	CONTAINS	TEXT	(I12101-04, MRUS, "CPT4 Description")	√		from info
19	>	CONTAINS	TEXT	(I12101-06,MRUS, "follicle-stimulating hormone")	√		
20	>	CONTAINS	TEXT	(I12101-07,MRUS, "luteinizing hormone")	√		
21	>	CONTAINS	TEXT	(I12101-08,MRUS, "estradiol")	√		
22	>	CONTAINS	TEXT	(I12101-09,MRUS, "Serum prolactin")	√		
23	>	CONTAINS	TEXT	(I12101-10,MRUS, "progesterone")	√		
24	>	CONTAINS	TEXT	(I12101-11,MRUS, "testosterone")	√		
25	>	CONTAINS	TEXT	(I12101-12,MRUS, "progesterone")	√		

36	>	CONTAINS	NUM	(I12101-17,MRUS,Assisted Vaginal Delivery)	√		from info
37	>	CONTAINS	NUM	(I12101-18,MRUS,Caesarean Section)	√		from info [redacted]
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	√		

	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	√		

	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")	√		

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					

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

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

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

A.21. TID (5007) Fetal Cranium Section

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

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	CODE	EV (G-C171, SRT,	√		
3	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = $BiometryType $Derivation = DCID (3627) Measurement Type
4	>	CONTAINS	NUM	EV (18185-9,	√		Units= EV (d,UCUM, days)
5	>	CONTAINS	NUM	(DCM, 125012, "Growth Percentile Rank")			
6	>	CONTAINS	NUM	(DCM, 121414, "Standard deviation of population")			

A.24. TID (5008_LR_Group) Biometry Group

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	DT(125005,	√		
2	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = 12005_3

A.25. TID (5008_kidney) Biometry Group

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

		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,

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,

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 $SectionLaterality = DCID (244) Laterality
14	>>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = EV (T-87000-
15	>>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = EV (T-87000-2
16	>>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = EV (T-87000-3 Ovarian Cyst1 Height
17	>>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = EV (T-87000-4 Ovarian Cyst2

18	>>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = EV (T-87000-5 Ovarian Cyst2
19	>>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = EV (T-87000-6 Ovarian Cyst2
20	>>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = EV (T-87000-7 Ovarian Cyst3

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17	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-07,MRUS,Fibroid2 Length)
18	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-08,MRUS,Fibroid2 Width)
19	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-09,MRUS,Fibroid2 Height)
20	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-10,MRUS,Fibroid3 Length)
21	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-11,MRUS,Fibroid3 Width)
22	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-12,MRUS,Fibroid3 Height)
23	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-13,MRUS, UT Anterior wall thickness)
24	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-14,MRUS, UT Posterior wall thickness)
25	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-15,MRUS,Lesion1 Height)
26	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-16,MRUS,Lesion2 Length)
27	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-17,MRUS,Lesion2 Width)
28	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-18,MRUS,Lesion2 Height)
29	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-19,MRUS,Lesion3 Length)
30	>	CONTAINS	INCLUDE	DTID (300)	√		$Measurement =

				Measurement			(M12011-20,MRUS,Lesion3 2 Width)
31	>	CONTAINS	INCLUDE	DTID (300) Measurement	√		$Measurement = (M12011-21,MRUS,Lesion3 Height)

A.36. TID (5025) OB-GYN Fetus Vascular Ultrasound Measurement Group

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	$AnatomyGroup	√		
2	>	HAS OBS CONTEXT	TEXT	EV (11951-1,LN,	√		
3	>	HAS OBS CONTEXT	NUM	EV (11878-6,LN, "Number of	√		
4	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,	√		DCID (244) Laterality
5	>	CONTAINS	INCLUDE	DTID (300) Measurement			$MeasType = DCID (12119) Vascular Ultrasound Property $Derivation = DCID (3627) Measurement Type

A.37. TID (5025-3) OB-GYN Vascular Ultrasound Measurement Group

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	$AnatomyGroup			
2	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,			$Laterality

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,	√		NUM.FETUS
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,	√		NUM.FETUS
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, "Finding Site")	√		$AnatomyGroup
3	>	CONTAINS	INCLUDE	DTID (300) Measurement			$Measurement= 00003

		with Parent			MODALITY		
1			CONTAINER	EV (99901-0,GEK,Fetal Echo)	√		
2	>	HAS OBS CONTEXT	INCLUDE	DTID(1008) Subject Context, Fetus	√		IF this template is invoked more than once to describe more than one fetus
3	>	CONTAINS	INCLUDE	DTID (ZSCORE)			

			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	√		

A.58. TID(#VP_VAS) OB-GYN Ultrasound Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1	>	CONTAINS	INCLUDE	DTID (vp_fetus) Measurement	√		NUM.FETUS
2	>	CONTAINS	INCLUDE	DTID (vp_nofetus) Measurement	√		

A.59. TID(vp_fetus) OB-GYN Ultrasound Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (121070, DCM,	√		NUM.FETUS

				"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	√		$AnatomyGroup =T-F1412,SRT,Vitelline Artery of Placenta;$Modifier=12116_0
12	>	CONTAINS	INCLUDE	DTID (subvp) Measurement	√		$AnatomyGroup =T-F1810,SRT,Umbilical Artery

A.60. TID(vp_nofetus) OB-GYN Ultrasound Section

	NL	Relation with Parent	Value Type	Concept Name	Used in MODALITY	Condition	Value Set Constraint

		CONCEPT MOD		DCM, "Procedure reported")		"Ultrasound elastography (procedure) "	
3	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,		T-62001,MRUS,GYN	
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_gyn	

A.65. 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	

A.72. TID (elas_item) Shear Wave Elastography Measurement

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1	>	CONTAINS	INCLUDE	DTID(elas)		$Measurement=$Measurement;$Prefix=$Prefix;$Qualifier=$Qualifier	

A.73. TID (elas) Shear Wave Elastography Measurement

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

A.74. CID(00001_0) OB-GYN Measurements

CSD	**CV**	**Code Meaning**
LN	18015-8	Aortic Root Diameter
MRUS	M18015-8	Aortic Root Diameter(Z Score)
MRUS	M18015-9	Aortic Value Diameter(Z Score)
MRUS	M12209-1	Pulmonary Valve Diameter(Z Score)
MRUS	M12208-1	Tricuspid Valve Diameter(Z Score)
LN	18154-5	Interventricular Septum Diastolic Thickness
LN	18158-6	Interventricular Septum Systolic Thickness
MRUS	C12201-06	Left Ventricular Diameter/Right Ventricular Diameter

CSD	CV	Code Meaning
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	C12212-03	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	M12207-1	Mitral Valve Diameter(Z Score)
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	M12205-01	Left Atrium Diameter
MRUS	M12205-02	Left Atrium area
MRUS	M12206-02	Right Atrium area
MRUS	M12240-01	Left ventricular area
MRUS	M12240-03	Left Ventricular Width

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

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 Scomets5(d)7( )-Sc 266.45 0.96 18.72 ref*

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
MRUS	M12005-04	Facial angle
MRUS	M12005-05	Fetal Kidney length

CSD	CV	Code Meaning
MRUS	M12240-21	

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	intracranialn /5 13M1CI* n8.04 Tf1* ny.

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

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 200/F7 8.04 Tf1 0 0 1 246(

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

LN	11726-7	PV

MRUS

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-Wave Peak Velocity
LN	17978-8	Mitral Valve A-Wave Peak Velocity
LN	18038-0	Mitral Valve E to A Ratio
LN	18031-5	Tricuspid Valve E Wave Peak Velocity
LN	18030-7	Tricuspid Valve A Wave Peak Velocity
LN	18039-8	Tricuspid Valve E to A Ratio
LN	79964-3	Aortic valve Vmax
MRUS	T-35410-1	Aortic Valve Time to Peak
LN	79965-0	Aortic valve VTI
LN	79920-5	Pulmonic valve Vmax
MRUS	T-35200-1	Pulmonic valve Time to Peak
LN	79910-6	Pulmonic valve VTI
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-35300-1	MVE
MRUS	T-35100-1	TVE
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
LN	18038-0	Mitral valve E-to-A ratio
MRUS	CT-35100-1	Tricuspid Valve E-to-A ratio

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	[redacted]essure Gradient

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

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. OB-GYN Measurements

MODALITY Label	***DICOM Mapping***
FHR	11948-7,LN,Fetal Heart Rate
HC/AC	11947-9,LN,HC/AC
FL/AC	11871-1,LN,FL/AC
FL/BPD	11872-9,LN,FL/BPD
CI	11823-2,LN,Cephalic Index
FL/HC	11873-7,LN,FL/HC
HrtC/TC	C12004-01,MRUS,HrtC/TC
TCD/AC	C12004-02,MRUS,TCD/AC
LVW/HW	C12004-03,MRUS,LVW/HW
CIHC	C12004-04, MRUS,Cephalic Index by HC
AC	11979-2,LN,Abdominal Circumference
BPD	11820-8,LN,Biparietal Diameter
FL	11963-6,LN,Femur Length
HC	11984-2,LN,Head Circumference
OFD	11851-3,LN,Occipital-Frontal Diameter

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g
IRUS Abdominal Diameter
IRUS Lliac Wing Angle
IRUS Fetal adrenal gland length
IRUS,Fetal adrenal gland area
IRUS Fetal adrenal gland circumference
IRUS Intestinum Crassum
IRUS Liver Length
IRUS Rib Length
IRUS Shoulder Blade
RUS Mean Abdominal Diameter
US, Mitral Ventricular CO Dur
US, Tricuspid Ventricular CO Dur
US,Left Ventricular Tei Index
US,Right Ventricular Tei Index
US,Left Ventricular Tei Index-Doppler
US, Right Ventricular Tei Index-Doppler
US,Long axis Head Circumference
US,Short axis Head Circumference
US,Long axis Abdominal Circumference
US,Short axis Abdominal Circumference
US,Bladder Height
US,Bladder Depth
US,Bladder Transverse Diameter
US,Bladder Neck-Symphyseal Distance
US,Retrovesical Angle (Valsava)
US,Urethral Tilt Angle (Valsava)

US,Pubovesical Angle (Valsava)

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
BrainVolume.Out.Width	M12005-65,MRUS,Fetal BrainVolume Outer Width
BrainVolume.Shell.FI	M12005-66,MRUS,Fetal BrainVolume Shell FI
BrainVolume.Shell.MG	M12005-67,MRUS,Fetal BrainVolume Shell MG
BrainVolume.Shell.VFI	M12005-68,MRUS,Fetal BrainVolume Shell VFI
BrainVolume.Shell.VI	M12005-69,MRUS,Fetal BrainVolume Shell VI
BrainVolume.Shell.Vol	M12005-70,MRUS,Fetal BrainVolume Shell Vol
FIBL	M12011-30,MRUS,Fibroid Length
FIBW	M12011-31,MRUS,Fibroid Width
FIBH	M12011-32,MRUS,Fibroid Height
FIBV	C12011-30,MRUS,Fibroid Volume

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
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

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*
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

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

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

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

							(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

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	

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

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

B.12. CID (12205) Echocardiography Left Atrium

CSD	CV	Code Meaning

INCLUDE CID 12220 Echocardiography Common Measurements

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

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

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

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

LVLs apical(SP Ellipse)	18076-0,LN,Left Ventricle systolic major axis	ImageMode = G-03A2,SRT,2D mode;
LVLs apical(Bullet)	18076-0,LN,Left Ventricle systolic major axis	ImageMode = G-03A2,SRT,2D mode;
LVLs2i	18076-0,LN,Left Ventricle systolic major axis	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19B,SRT,Apical two chamber; Method =125207,DCM,Method of Disks, Biplane
LVLs4i	18076-0,LN,Left Ventricle systolic major axis	ImageMode = G-03A2,SRT,2D mode; ImageView = G-A19C,SRT,Apical four chamber; Method =125207,DCM,Method of Disks, Biplane
LVPWs(2D)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-03A2,SRT,2D mode;
LVPWs(M)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-0394,SRT,M Mode;
LVPWs Cube(2D)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method
LVPWs Cube(M)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =125206,DCM,Cube Method
LVPWs Teich(2D)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =125209,DCM,Teichholz
LVPWs Teich(M)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =125209,DCM,Teichholz
LVPWs Gibson(2D)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =VM12228-03,MRUS,Gibson
LVPWs Gibson(M)	18156-0,LN,Left Ventricle Posterior Wall Systolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =VM12228-03,MRUS,Gibson
LVPWd(2D)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-03A2,SRT,2D mode;
LVPWd(LV Mass-2D)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-03A2,SRT,2D mode;
LVPWd(LV Mass-M)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-0394,SRT,M Mode; Method =125221,DCM,Left Ventricle Mass by M-mode
LVPWd(M)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-0394,SRT,M Mode;
LVPWd Cube(2D)	18152-9,LN,Left Ventricle Posterior Wall Diastolic Thickness	ImageMode = G-03A2,SRT,2D mode; Method =125206,DCM,Cube Method

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;

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

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

LVOT Diam(AVA Vmax)	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode =G-03A2,SRT,2D mode;
LVOT 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	
MV.IRT	18071-1,MRUS,Mitral Valve Isovolumic Relaxation Time	
IVCT	G-037E,SRT,Left Ventricular Isovolumic Contraction Time	
LVIMP(M)	G-037F,SRT,Left Ventricular Index of Myocardial Performance	ImageMode =G-0394,SRT,M Mode;
LVIMP(Doppler)	G-037F,SRT,Left Ventricular Index of Myocardial Performance	

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(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	

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	

LA Major	M12205-01,MRUS,Left atrium Major	ImageMode = G-03A2,SRT,2D mode;

AV Diam(2D)	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode = G-03A2,SRT,2D mode;
AV Diam(Qp/Qs)	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode = G-03A2,SRT,2D mode;
AR Fraction	G-0390,SRT,Regurgitant Fraction	Flow Direction =R-42E61,SRT,Regurgitant Flow; Method =125216,DCM,Proximal Isovelocity Surface Area
AR Ved	11653-3,LN,End Diastolic Velocity	Flow Direction = R-42E61,SRT,Regurgitant Flow
AV Vmax	11726-7,LN,Peak Velocity	Flow Direction = R-42047,SRT,Antegrade Flow;
AR Vmax	11726-7,LN,Peak Velocity	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AR Vmax(AR VTI)	11726-7,LN,Peak Velocity	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AR Vmax(AR PHT)	11726-7,LN,Peak Velocity	Flow Direction = R-42E61,SRT,Regurgitant Flow;
AR Vmax(PISA AR)	11726-7,LN,Peak Velocity	Flow Direction = R-42E61,SRT,Regurgitant Flow; Method =125216,DCM,Proximal Isovelocity Surface Area
AV Vmax(AV VTI)	11726-7,LN,Peak Velocity	Flow Direction = R-42047,SRT,Antegrade Flow;
AV Vmean	20352-1,LN,Mean Velocity	Flow Direction = R-42047,SRT,Antegrade Flow;
AR Vmean	20352-	

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;

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;

PV VTI	20354-7,LN,Velocity Time Integral	Flow Direction =R-42047,SRT,Antegrade Flow;
PR VTI	20354-0 G[( )] TJETQQ EMC q311.59 '	

TV E/A(TV E/A)	18039-8,LN,Tricuspid Valve E to A Ratio	
TV C-O dur	G-0389,SRT,Tricuspid Valve Closure to Opening Time	
TV	M12222-01,MRUS,Angle	Flow Direction =R-42047,SRT,Antegrade Flow;
TR	M12222-01,MRUS,Angle	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TV HR	8867-4,LN,Heart rate	
TR Flow	33878-0,LN,Volume Flow	Flow Direction =R-42E61,SRT,Regurgitant Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area
TR Flow Rate	34141-2,LN,Peak Instantaneous Flow Rate	Flow Direction =R-42E61,SRT,Regurgitant Flow; ImageMode = R-409E2, SRT, Doppler Color Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area
TVA	G-038E,SRT,Cardiovascular Orifice Area	Flow Direction =R-42047,SRT, Antegrade Flow; ImageMode = G-03A2,SRT,2D mode; Method = 125220,DCM,Planimetry
TVA(PHT)	G-038E,SRT,Cardiovascular Orifice Area	Flow Direction =R-42047,SRT, Antegrade Flow; Method = 125210,DCM,Area by Pressure Half-Time
TV Diam	G-038F,SRT,Cardiovascular Orifice Diameter	Flow Direction =R-42047,SRT, Antegrade Flow; ImageMode = G-03A2,SRT,2D mode;
TR Fraction	G-0390,SRT,Regurgitant Fraction	Flow Direction =R-42E61,SRT,Regurgitant Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area
TV Vmax	11726-7,LN,Peak Velocity	Flow Direction =R-42047,SRT, Antegrade Flow;
TR Vmax	11726-7,LN,Peak Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TV Vmax(TV PHT)	11726-7,LN,Peak Velocity	Flow Direction =R-42047,SRT, Antegrade Flow;
TV Vmax(TV VTI)	11726-7,LN,Peak Velocity	Flow Direction =R-42047,SRT, Antegrade Flow;
TR Vmax(TR VTI)	11726-7,LN,Peak Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TR Vmax(PISA TR)	11726-7,LN,Peak Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow; Method = 125216,DCM,Proximal Isovelocity Surface Area
TR Vmax(RVSP)	11726-7,LN,Peak Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TV Vmean	20352-1,LN,Mean Velocity	Flow Direction =R-42047,SRT, Antegrade Flow;
TR Vmean	20352-1,LN,Mean Velocity	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TV PGmax(TV PHT)	20247-3,LN,Peak Gradient	Flow Direction =R-42047,SRT, Antegrade Flow;
TV PGmax(TV VTI)	20247-3,LN,Peak Gradient	Flow Direction =R-42047,SRT, Antegrade Flow;
TV PGmax	20247-3,LN,Peak Gradient	Flow Direction =R-42047,SRT, Antegrade Flow;

TR PGmax	20247-3,LN,Peak Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TR PGmax(TR VTI)	20247-3,LN,Peak Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TR PGmax(RVSP)	20247-3,LN,Peak Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TV PGmean	20256-4,LN,Mean Gradient	Flow Direction =R-42047,SRT, Antegrade Flow;
TR PGmean	20256-4,LN,Mean Gradient	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TV VTI	20354-7,LN,Velocity Time Integral	Flow Direction =R-42047,SRT, Antegrade Flow;
TR VTI	20354-7,LN,Velocity Time Integral	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TR VTI(PISA TR)	20354-7,LN,Velocity Time Integral	Flow Direction =R-42E61,SRT,Regurgitant Flow; Method =125216,DCM,Proximal Isovelocity Surface Area
TV PHT	20280-4,LN,Pressure Half-Time	Flow Direction =R-42E61,SRT,Regurgitant Flow;
TV AccT	20168-1,LN,Acceleration Time	Flow Direction =R-42047,SRT, Antegrade Flow;
TV DecT	20217-6,LN,Deceleration Time	Flow Direction =R-42E61,SRT,Regurgitant Flow;

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;

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 =G-0394,SRT,M mode
IVC Depth(Expir-M)	M12215-04,MRUS,Inferior Vena Cava Depth	RespiratoryCyclePoint=F-20020,SRT, Inspiration; ImageMode =G-0394,SRT,M mode
SVC Depth(Insp)	M12215-05,MRUS,Superior Vena Cava Depth	RespiratoryCyclePoint=F-20010,SRT, Inspiration; ImageMode =G-03A2,SRT,2D mode;
SVC Depth(Expir)	M12215-05,MRUS,Superior Vena Cava Depth	RespiratoryCyclePoint=F-20020,SRT, Expiration; ImageMode =G-03A2,SRT,2D mode;
VC Depth(Insp-M)	M12215-05,MRUS,Superior Vena Cava Depth	RespiratoryCyclePoint=F-20010,SRT, Inspiration; ImageMode =G-0394,SRT,M mode

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 Gradient	
Coarc Post-Duc PG	M12218-10,MRUS,Coarctation of Post-Ductus Pressure Gradient	
VSD Diam	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode =G-03A2,SRT,2D mode;
ASD Diam	G-038F,SRT,Cardiovascular Orifice Diameter	ImageMode =G-03A2,SRT,2D mode;
VSD Vmax	11726-7,LN,Peak Velocity	
ASD Vmax	11726-7,LN,Peak Velocity	
VSD PGmax	20247-3,LN,Peak Gradient	
ASD PGmax	20247-3,LN,Peak Gradient	

B.41.15. Pericardial Disease Measurements

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

B.41.16. Heart Rate Measurements

MODALITY Label	***DICOM Mapping***	***Optional Modifiers***
HR	8867-4 LN Heart rate	Image Mode = G-0394,SRT,M Mode
HRSP.Ellipse	8867-4 LN Heart rate	Method =125226,DCM,Single Plane Ellipse

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 of Disks,Simpson
HRSimp.SP	8867-4 LN Heart rate	Method= 125208,DCM,Method of Disks, Single Plane
HRSimp.SP.A4C	8867-4 LN Heart rate	Method= 125208,DCM,Method of Disks, Single Plane
HRSimp.BP	8867-4 LN Heart rate	Method= 125207,DCM,Method of Disks, Biplane
HRTeich.2D	8867-4 LN Heart rate	Method= 125209,DCM,Teichholz
HRTeich.M	8867-4 LN Heart rate	Method= 125209,DCM,Teichholz
HRCube.2D	8867-4 LN Heart rate	Method= 125206,DCM,Cube Metho
HRCube.M	8867-4 LN Heart rate	Method= 125206,DCM,Cube Method
HRGibson.2D	8867-4 LN Heart rate	Method= VM12228-03,MRUS,Gibson
HRGibson.M	8867-4 LN Heart rate	Method= VM12228-03,MRUS,Gibson

B.41.17. Stress Echo Measurements

MODALITY Label	*DICOM Mapping*	*Optional Modifiers*

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				

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

28	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T- □ $SectionLaterality = EV (G-A103, $Anatomy = DCID (12114) Abdominal Veins (unilateral)	
29	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T-71019, SRT $SectionLaterality = EV (G- □ $Anatomy = DCID (12115) Renal Vessels	
30	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section		$SectionScope = DT (T-71019, $SectionLaterality = EV (G- □□ $Anatomy = DCID (12115) Renal Vessels	
31	>	CONTAINS	INCLUDE	DTID (5105) Ultrasound Graft Section			
32	>	CONTAINS	TEXT	(20121120,MRUS, self-defined-Measurementfile)			
33	>	CONTAINS	INCLUDE	DTID (5103-12116) Vascular Ultrasound Section		$SectionScope = DT (M-71019, SRT, "Other Vascular"); $SectionLaterality = 244	

C.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	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	>	[redacted]					

2		CONTAINS	NUM	EV (121033, DCM,		Units = DCID	

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-A1F8, SRT,	√	DCID (12116) Vessel Segment Modifiers	

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
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
MRUS	M31432901	AV.Graft.Outflow.Vein.Level3.3.2D
MRUS	M31433001	AV.Graft.Outflow.Vein.Level3.4.2D
MRUS	M31433101	AV.Graft.Outflow.Vein.Level3.5.2D
MRUS	M31433201	AV.Graft.Outflow.Vein.Level3.6.2D
MRUS	M31397501	AV.Graft.Inflow.Artery2.2D
MRUS	M31397701	AV.Graft.Graft2.2D
MRUS	M31432601	AV.Graft.Graft3.2D
MRUS	M31398501	AV.Graft.Outflow.Vein2.2D
MRUS	M31398601	AV.Graft.Afferent2.2D
MRUS	M31433401	AV.Graft.Afferent3.2D
MRUS	M31398701	AV.Graft.Efferent2.2D
MRUS	M31433501	AV.Graft.Efferent3.2D
MRUS	M31401401	AV.Graft.Outflow.Vein
MRUS	M31401501	AV.Graft.Afferent
MRUS	M31401601	AV.Graft.Efferent
MRUS	M31404007	AVF.Stenosis2.1.2D
MRUS	M31404207	AVF.Stenosis2.2.2D
MRUS	M31404407	AVF.Stenosis2.3.2D
MRUS	M31404603	AVF.Aneurysm2.1.2D
MRUS	M31404803	AVF.Aneurysm2.2.2D
MRUS	M31405003	AVF.Aneurysm2.3.2D
MRUS	M31405207	AV.Graft.Stenosis2.1.2D
MRUS	M31405407	AV.Graft.Stenosis2.2.2D
MRUS	M31405607	AV.Graft.Stenosis2.3.2D
MRUS	M31405803	AV.Graft.Aneurysm2.1.2D

CSD	**CV**	**Code Meaning**
MRUS	A12109-13	Lower External Arterial Graft 3 Native Outflow
MRUS	A12109-17	

CSD	CV	Code Meaning
SRT	R-1025A	Great Saphenous Vein of Calf
SRT	T-D930A	Saphenofemoral Junction
SRT	T-4941A	Saphenopopliteal junction
[redacted]	V12110-02	[redacted]
[redacted]	V12110-03	Small Saphenous Vein Thigh Extension
MRUS	V12110-04	AASV
[redacted]	[redacted]	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
[redacted]	M31428104	GSV.Ankle.2D
MRUS	M31427904	Cephalic.V.Wrist.2D
[redacted]	MRUS	[redacted]	Ant.Calf.Perf.2D

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	Renal Artery
SRT	T-48740	Renal Vein
SRT	T-46659	Segmental Artery
SRT	T-4668A	Arcuate Artery of the Kidney
SRT	T-4667D	Interlobar Artery of Kidney
MRUS	V12115-01	Main Renal Artery
MRUS	A12115-01	Ren A Org
MRUS	A12115-02	Renal A1
MRUS	A12115-03	Renal A2
MRUS	A12115-04	Hilum
MRUS	A12115-05	Renal A Aneurysm
MRUS	A12115-21	Artery Anast 2 Transplant 1
MRUS	V12115-06	Vein Anast Transplant 1
MRUS	V12115-07	Vein Anast 2 Transplant 1
MRUS	A12115-22	Artery Anast Transplant 2
MRUS	A12115-23	Artery Anast 2 Transplant 2
MRUS	V12115-08	Vein Anast Transplant 2
MRUS	V12115-09	Vein Anast 2 Transplant 2
MRUS	M31380101	Renal V1
MRUS	M31380102	Renal V2
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
MRUS	M31419901	BPG Inflow Diam
MRUS	M31420101	BPG Prox Anast Diam
MRUS	M31420201	BPG Graft Limb Diam
MRUS	M31420401	BPG Outflow
MRUS	M31427701	BPG Outflow
MRUS	M31427201	BPG Inflow
MRUS	M31427301	BPG Prox Anast

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
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*
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	M12119-04,MRUS,Diastolic to Systolic Velocity Ratio	
AT	20168-1,LN,Acceleration Time	
DT	20217-6,LN,Deceleration Time	
PG	20247-3,LN,Peak Gradient	
MG	20256-4,LN,Mean Gradient	
MVMPG	M12119-01,MRUS,Mean Velocity Mean Pressure Gradient	
VTI	20354-7,LN,Velocity Time Integral	
HR	8867-4, LN, Heart rate	
ANGLE	M12119-02,MRUS,Angle	
ABSP	M12119-05,MRUS,Artery Systolic Pressure	
ABI	8581-1,LN,Tibial/brachial index	
ASP	A12105-4,MRUS,Ankle Systolic Pressure	
BSP	A12105-5,MRUS,Brachial Systolic Pressure	
Vol Flow(TAMAX&VAS_AREA)	M12119-06,MRUS,Vol Flow(TAMAX&VAS_AREA)	
Diam	R-1025C,SRT,Vessel Intimal Diameter	
Vol Flow(TAMEAN&VAS_AREA)	M12119-07,MRUS,Vol Flow(TAMEAN&VAS_AREA)	
Area	G-0366,SRT,Vessel lumen cross-sectional area	
Pseudoaneurysm.Neck	M12119-10,MRUS,pseudoaneurysm Neck	
Pseudoaneurysm.Trans	M12119-09,MRUS,pseudoaneurysm Width	
Pseudoaneurysm.AP	M12119-08,MRUS,pseudoaneurysm Height	
Pseudoaneurysm.Long	M12119-07,MRUS,pseudoaneurysm Length	
Reflux	M12119-11,MRUS,Reflux time	
Depth	G-D785,SRT,Depth	

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.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	A12107-1,MRUS,Mammary Artery
UE.A.Graft.1.Native.Inflow.2D	A12107-2,MRUS,Upper External Arterial Graft 1 Native Inflow
UE.A.Graft.1.Anast.2D	A12107-3,MRUS,Upper External Arterial Graft 1 Anastomosis
UE.A.Graft.1.Graft.2D	A12107-4,MRUS,Upper External Arterial Graft 1 Graft
UE.A.Graft.1.Native.Outflow.2D	A12107-5,MRUS,Upper External Arterial Graft 1 Native Outflow
UE.A.Graft.2.Native.Inflow.2D	A12107-6,MRUS,Upper External Arterial Graft 2 Native Inflow
UE.A.Graft.2.Anast.2D	A12107-7,MRUS,Upper External Arterial Graft 2 Anastomosis
UE.A.Graft.2.Graft.2D	A12107-8,MRUS,Upper External Arterial Graft 2 Graft
UE.A.Graft.2.Native.Outflow.2D	A12107-9,MRUS,Upper External Arterial Graft 2 Native Outflow
UE.A.Graft.3.Native.Inflow.2D	A12107-10,MRUS,Upper External Arterial Graft 3 Native Inflow
UE.A.Graft.3.Anast.2D	A12107-11,MRUS,Upper External Arterial Graft 3 Anastomosis
UE.A.Graft.3.Graft.2D	A12107-12,MRUS,Upper External Arterial Graft 3 Graft
UE.A.Graft.3.Native.Outflow.2D	A12107-13,MRUS,Upper External Arterial Graft 3 Native Outflow
UE.A.Stent.1.2D	A12107-14,MRUS,Upper External Arterial Stent 1
UE.A.Stent.2.2D	A12107-15,MRUS,Upper External Arterial Stent 2

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
UE.A.Stenosis.1	A12107-29,MRUS,Upper External Arterial Stenosis 1
UE.A.Stenosis.2	A12107-30,MRUS,Upper External Arterial Stenosis 2
UE.A.Stenosis.3	A12107-31,MRUS,Upper External Arterial Stenosis 3
UE.A.Stenosis.4	A12107-32,MRUS,Upper External Arterial Stenosis 4
Upper	A12107-33,MRUS,Upper Artery
Innomi.A	T-46010, SRT, Innominate Artery
Innomi.A.Sten	A12107-33, MRUS, Innominate Artery Sten
Innomi.A.Aneurysm	A12107-34, MRUS, Innominate Artery Aneurysm

C.30.6. Upper Extremity Arteries(unilateral)

MODALITY Label	***DICOM Mapping***
Innom A	T-46010, SRT, Innominate Artery

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

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	A12109-55,MRUS,Lower External Arterial Stenosis 2
LE.A.Stenosis.3.2D	A12109-56,MRUS,Lower External Arterial Stenosis 3
LE.A.Stenosis.4.2D	A12109-57,MRUS,Lower External Arterial Stenosis 4
IIA.Aneurysm.2D	A12109-58,MRUS,Internal Iliac Arterial Aneurysm
IIA.Sten	A12109-59,MRUS,Internal Iliac Artery Stenosis

Lower	A12109-60,MRUS,Lower Artery
C.Iliac.A	T-46710,SRT,Common Iliac Artery
A.Tib.A	T-47700,SRT,,Anterior Tibial Artery
CFA	T-47400,SRT, Common Femoral Artery
Dors.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

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

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				

	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	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
		S					
5	>	CONTAINS	TEXT	EV (I12101-03	√		
6	>	CONTAINS	TEXT	EV (I12101-04	√		
7	>	CONTAINS	NUM	EV (8302-	√		
8	>	CONTAINS	NUM	EV (29463-7, LN, "Patient Weight")	√		
9	>	CONTAINS	TEXT	□	√		
10	>	CONTAINS	TEXT	EV (I12101-□	√		
11	>	CONTAINS	TEXT	□	√		

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

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

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				
9	>>	CONTAINS	INCLUDE	DTID (4203) Breast Imaging Assessment			

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

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

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

D.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. D(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. D(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			

			ER	(110830,DCM,"Elasticity")			
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	

D.17. 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	

D.18. 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	

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

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

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
[redacted]	
SML.Breast.Finding1.Strain	ME10000-56,MRUS,Breast Finding1 Strain
SML.Breast.Finding2.Strain	[redacted]
[redacted]	[redacted]

[redacted]

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,

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

E. Appendix : Abdomen Imaging structured reporting template

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

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

E.1. TID (0100) Abdomen Ultrasoud Report

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
1			CONTAINER	EV (MR0100-01, MRUS, Abdomen Ultrasound Procedure Report)	√		
2	>	HAS CONCEPT MOD	INCLUDE	DTID (1001) Observation Context	√		
3	>	CONTAINS	INCLUDE	DTID (0101) Abdomen Patient Characteristics	√		
4	>	CONTAINS	CONTAINER	DT (111028, DCM,	√		
5	>>	CONTAINS	IMAGE	No purpose of reference	√		
6	>	CONTAINS	INCLUDE	DTID (0102) Abdomen Procedure Summary Section	√		
7	>	CONTAINS	INCLUDE	DTID (0103) Abdomen Ultrasound Section	√		$SectionScope=T-62000,SRT,Liver;$SectionLaterality = G-A103, SRT,Unilateral
8	>	CONTAINS	INCLUDE	DTID (0104) Abdomen Ultrasound Section	√		$SectionScope=T-63000,SRT,Gallbladder;$SectionLaterality = G-A103, SRT,Unilateral

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-			

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					

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

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	COMMENT
1			CONTAINER	DT (121111, DCM,			
2	>	CONTAINS	TEXT	EV (121106, DCM, "Comment")			from Info comment
3	>	CONTAINS	TEXT	(I12101-01,MRUS,"Primary Indications")			from Info
4	>	CONTAINS	TEXT	(I12101-02,MRUS,"Secondary			from Info

				Indications")			
5	>	CONTAINS	TEXT	(I12101-03,MRUS,"CPT4 Code")			from Info
6	>	CONTAINS	TEXT	(I12101-04,MRUS,"CPT4 Description")			from Info
7	>	CONTAINS	TEXT	EV (121106, DCM, "Comment")			From report comment

E.4. TID (0103) Abdomen Ultrasound Section

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

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

E.5. TID (0104) Abdomen Ultrasound Section

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
2	>	HAS CONCEPT MOD	CODE	EV (G-C0E3,		$SectionScope	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171,		$SectionLaterality	

4 >

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- □	

	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)	
6	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (C12119-2, ;	
7	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (C12119-1, ;	
8	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-14, ;	

9	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-15, ;	
10	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-16, ;	
11	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-19, ;	
12	>>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (M12119-20, ;	
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	

				ent		y;	
19	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement=psps1;$Laterality=$SectionLaterality;	
20	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = ABD3_0_lr;$Laterality=$SectionLaterality; $Prefix=$AnatomyGroup; $Modifier=$Modifier;	
21	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = ABD3_0_lr_fmn;$Laterality=$SectionLaterality; $Prefix=$AnatomyGroup; $Modifier=$Modifier;	
22	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = "C12120-2,MRUS,Celiac Axis Peak Systolic Velocity/Aorta Peak Systolic Velocity"	

E.14. TID (SELFTMP_5103_8) 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, Finding		$SectionScope	
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT,		$SectionLaterality	
4	>	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group		$AnatomyGroup = $Anatomy= DCID (12114) Abdominal Arteries (unilateral); $Modifier =DCID(12116)	

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 =	

						(G-□)	
6	>	CONTAINS	INCLUDE	DTID (300) Measurement		$Measurement = EV (C12119-3 Renal Aortic Ratio ; $Laterality=$SectionLaterality	

E.16. TID (SELFTMP_5103_10) Vascular Ultrasound Section

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			CONTAINER	DT (121070, DCM,			
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 = EV (C12119-3 ; $Laterality=$SectionLaterality	

E.17. TID (hri) 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,			
2	>	HAS CONCEPT MOD	CODE	EV (G-A1F8, SRT, "Topographical Modifier")		$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	Comm…
1			CONTAINER	DT (121070, DCM,			

		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).

				Group			
7	>	CONTAINS	INCLUDE	DTID (300) Vascular Measurement Group		$Measurement "M12119	=

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	

				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

				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, SRT, "Finding Site")		$Prefix	
3	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_ disp_quilifier	

E.35. 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	

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1	>	CONTAINS	INCLUDE	DTID(elas)		$Measurement =$Measurement;$Prefix=$Prefix;$Qualifier=$Qualifier	

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

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

E.38. 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

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	

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

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Condition	Value Set Constraint
							$SectionLaterality = EV (G-A101, ; $SectionLaterality = EV (G-A100,)
9	>	CONTAINS	INCLUDE	DTID (0104) Small Part Ultrasound Section	√		$SectionScope = DT (T-94000, ; $SectionLaterality = EV (G-A101, ; $SectionLaterality = EV (G-A100,)
10	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section			$SectionScope = DT (T-71019, lar Structure Of ; $SectionLaterality = EV (G-A101, ; $Anatomy = DCID (12115) Renal Vessels; $AnatomyRatio = DCID (12124)

	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			

>

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 Constraint	Comment
1			CONTAINER				
2	>	CONTAINS	TEXT	EV (121106, DCM, "Comment")			

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,			

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	

F.10. TID (0107) 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		[redacted]					

1			CONTAINER	EV (T-71019,SRT,Vascular Structure Of Thyroid)		[redacted]	
2	>	CONTAINS	INCLUDE	DTID (0107) Measurement		$AnatomyGroup=MT-45210-04,MRUS, Isthmus	
3	>	CONTAINS	INCLUDE	DTID (0105) Measurement		$AnatomyGroup=T-45210,SRT,Superior Thyroid Artery;$Laterality=244	
4	>	CONTAINS	INCLUDE	DTID (0105) Measurement		$AnatomyGroup=MT-45210-01,MRUS, Inferior Thyroid Artery;$Laterality=244	

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 (

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

	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	>>	CONTAINS	INCLUDE	DTID(elas_item)		$Measurement =elas_tail;$Prefix=$Prefix;$Qualifier= elas_e_quilifier	

F.25. 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	

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	>	CONTAINS	INCLUDE	DTID(elas)		$Measurement =$Measurement;$Prefix=$Prefix;$Qualifier=$Qualifier	

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

	NL	Rel with Parent	VT	Concept Name	Used in MODALITY	Value Set Constraint	Comment
1			ELASTMEASNUM	$Measurement			

2

CSD	CV	Code Meaning
MRUS	MT-B6000-28	Thyroid Nodule3 d3
MRUS	MT-B6000-29	Thyroid(Sup) Height
MRUS	MT-B6000-30	Thyroid(Sup) Width
MRUS	MT-B6000-31	Thyroid(Mid) Height
MRUS	MT-B6000-32	Thyroid(Mid) Width
MRUS	MT-B6000-33	Thyroid(Inf) Height
MRUS	MT-B6000-34	Thyroid(Inf) Width
MRUS	MT-B6000-35	Parathyroid 1 Height
MRUS	MT-B6000-36	Parathyroid 1 Width
MRUS	MT-B6000-37	Parathyroid 1 Length
MRUS	CT-B6000-1	Parathyroid 1 Volume
MRUS	MT-B6000-38	Parathyroid 2 Height
MRUS	MT-B6000-39	Parathyroid 2 Width
MRUS	MT-B6000-40	Parathyroid 2 Length
MRUS	CT-B6000-2	Parathyroid 2 Volume
MRUS	MT-B6000-41	Parotid Height
MRUS	MT-B6000-42	Parotid Width
MRUS	MT-B6000-43	Parotid Length
MRUS	CT-B6000-3	Parotid Volume
MRUS	MT-B6000-44	Lymph Node1 Height
MRUS	MT-B6000-45	Lymph Node1 Width
MRUS	MT-B6000-46	Lymph Node1 Length
MRUS	CT-B6000-4	Lymph Node1 Volume
MRUS	MT-B6000-47	Lymph Node2 Height
MRUS	MT-B6000-48	Lymph Node2 Width
MRUS	MT-B6000-49	Lymph Node2 Length
MRUS	CT-B6000-5	Lymph Node2 Volume
MRUS	MT-B6000-50	Lymph Node3 Height
MRUS	MT-B6000-51	Lymph Node3 Width
MRUS	MT-B6000-52	Lymph Node3 Length
MRUS	CT-B6000-6	Lymph Node3 Volume
MRUS	MT-B6000-53	Lymph Node4 Height
MRUS	MT-B6000-54	Lymph Node4 Width
MRUS	MT-B6000-55	Lymph Node4 Length

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
SML.Thyroid.Mass1.StrRt	ME10000-76,MRUS,Thyroid Mass1 StrRt
SML.Thyroid.Mass2.StrRt	ME10000-77,MRUS,Thyroid Mass2 StrRt
SML.Thyroid.Mass3.StrRt	ME10000-78,MRUS,Thyroid Mass3 StrRt
SML.Thyroid.Mass1.ERt	ME10000-79,MRUS,Thyroid Mass1 ERt
SML.Thyroid.Mass2.ERt	ME10000-80,MRUS,Thyroid Mass2 ERt
SML.Thyroid.Mass3.ERt	ME10000-81,MRUS,Thyroid Mass3 ERt
SML.Thyroid.Nodule1.StrRt	ME10000-82,MRUS,Thyroid Nodule1 StrRt
SML.Thyroid.Nodule2.StrRt	ME10000-83,MRUS,Thyroid Nodule2 StrRt
SML.Thyroid.Nodule3.StrRt	ME10000-84,MRUS,Thyroid Nodule3 StrRt
SML.Thyroid.Nodule1.ERt	ME10000-85,MRUS,Thyroid Nodule1 ERt
SML.Thyroid.Nodule2.ERt	ME10000-86,MRUS,Thyroid Nodule2 ERt
SML.Thyroid.Nodule3.ERt	ME10000-87,MRUS,Thyroid Nodule3 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

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

		CONTEXT		% L U W K ' D W H ´			Date (0010,0030) in Patient Module
	>	HAS OBS CONTEXT	CODE	EV (121032,DCM, "Subject 6 H [´	1	U	value equivalent to 3 D W L H Q W ¶ V 6 H [(0010,0040) in Patient Module
	>	HAS OBS CONTEXT	NUM	EV (121033,DCM, "Subject $ J H ´	1	U	Y D O X H R I 3 D W L H (0010,1010) in Patient Study Module

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

[redacted]

Req Type	Condition	Value Set Constraint

G.5. TID (ped) PED ULTRASOUND SECTION

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

G.6. CID( ) PED Measurements

CSD	CV	Code Meaning
MRUS	MT-91000-01	ALPHA
MRUS	MT-91000-02	BETA
MRUS	MT-91000-03	Hip Type
MRUS	MT-91000-04	D
MRUS	MT-91000-05	d
MRUS	MT-91000-06	d/D Ratio (%)

G.7. Mapping between Modality measurements and DICOM Concepts.

G.7.1. PED Measurements

MODALITY Label	*DICOM Mapping*
alpha	MT-91000-01,MRUS,ALPHA

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 '

H.1. TID (5400) 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	

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, ³) L Q G L Q	1	M		
2	>	HAS CONCEPT MOD	MODCODE	EV (G-C0E3, SRT, ³) L Q G L Q 6 L W H ´	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 (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	

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;
3	>	CONTAINS	INCLUDE	DTID (300t) Measurement			$Measurement = G-A220,SRT,Width; $Prefix=$SectionScope;
4	>	CONTAINS	INCLUDE	DTID (300t) Measurement			$Measurement = 121207,DCM,Height; $Prefix=$SectionScope
5	>	CONTAINS	INCLUDE	DTID (300t) Measurement			$Measurement = G-D705,SRT,Volume; $Prefix=$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

[redacted]

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

1.2.840.10008.5.1.4.1.1.66.4 e286 5172 01 730 90 000008871 g

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

H.34. CID(uro2) URO Measurements

CSD	CV	Code Meaning
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

H.35. CID(00001_0) Measurements

CSD	CV	Code Meaning
LN	18015-8	Aortic Root Diameter
MRUS	M18015-8	Aortic Root Diameter(Z Score)
MRUS	M18015-9	Aortic Value Diameter(Z Score)
MRUS	M12209-1	Pulmonary Valve Diameter(Z Score)
MRUS	M12208-1	Tricuspid Valve Diameter(Z Score)
LN	18154-5	Interventricular Septum Diastolic Thickness
LN	18158-6	Interventricular Septum Systolic Thickness
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	C12212-03	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

CSD	CV	Code Meaning
MRUS	M12201-03	Left ventricular Diameter
MRUS	M12201-09	Left ventricular Diameter(Z Score)
MRUS	M12201-04	interventricular septal thichness
MRUS	M12207-1	Mitral Valve Diameter(Z Score)
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	M12205-01	Left Atrium Diameter
MRUS	M12205-02	Left Atrium area
MRUS	M12206-02	Right Atrium area
MRUS	M12240-01	Left ventricular area
MRUS	M12240-03	Left Ventricular Width
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

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	

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.Mass2.Elas	ME10000-132,MRUS,Prostate Mass2 Elas
URO.Prostate.Mass3.Elas	ME10000-133,MRUS,Prostate Mass3 Elas
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
URO.Prostate.Elas.PZ.HP	ME10000-137,MRUS,Prostate Elas PZ HP
URO.Prostate.Elas.PZ.SP	ME10000-138,MRUS,Prostate Elas PZ SP
URO.Prostate.Elas.PZ	ME10000-139,MRUS,Prostate Elas PZ

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.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

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

Follicle1 d1
Follicle1 d2
Follicle1 d3
Follicle1 MD
Follicle1 Vol
Ovary Vol
UT Vol
GS
Sac Diam1
Sac Diam2
Sac Diam3
CRL
BPD
HC
AC
FL
OFD
OFD(HC)
APAD
TAD
THD
APTD
YS
HUM
Ulna
Tibia
RAD
FIB
CLAV

TCD
OOD
Vertebrae
NT
HW
NF
Cervix L
FHR
LVW
IOD
Foot
TC
AF1
AF2
AF3
AF4
AFI
EFW
EFW12
FL/AC
FL/BPD
FL/HC
HC(c)
HrtC/TC
TCD/AC
LVW/HW