RS80A Ultrasound System

DICOM Conformance Statement

Revision 1.1
System Version 1.00.03

Created: June 02, 2014 Last Updated: August 22, 2014



0 COVER PAGE

Company Name: SAMSUNG MEDISON CO., LTD

Produce Name: RS80A

Version: 1.1

Internal Document Number:

Date: August 22, 2014

1 CONFORMANCE STATEMENT OVERVIEW

RS80A implements the necessary DICOM services to download worklists from information systems, save acquired US images and Structured Reports to a network storage device, CD or DVD, print to a networked hardcopy device and inform the information system about the work actually done.

Table 1-1 provides an overview of the network services supported by RS80A.

Table 1-1
NETWORK SERVICES

SOP Classes	User of Service (SCU)	Provider of Service (SCP)
Transfer		
Ultrasound Image Storage	Yes	No
Ultrasound Multi-frame Image Storage	Yes	No
Comprehensive SR	Yes	No
Workflow Management		
Modality Worklist	Yes	No
Storage Commitment Push Model	Yes	No
Modality Performed Procedure Step	Yes	No
Print Management		
Basic Grayscale Print Management	Yes	No
Basic Color Print Management	Yes	No

Table 1-2 provides an overview of the Media Storage Application Profiles supported by RS80A.

Table 1-2
MEDIA SERVICES

Media Storage Application Profile	Write Files (FSC or FSU)	Read Files (FSR)
Compact Disk – Recordable		
STD-US-SC-MF-CDR	Yes	No
DVD		
STD-US-SC-MF-DVD	Yes	No

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3 INTRODUCTION

3.1 REVISION HISTORY

Document	System	Date of Issue	Author	Description
Version	Version			
1.0	1.0	June 02, 2014	SAMSUNG MEDISON	Final Text for System 1.0
1.1	1.00.03	August 22,2014	SAMSUNG MEDISON	Add Worklist Matching Key
				-Scheduled Station Name(0040,0010)
				-Scheduled Procedure Step Location
				(0040,0011)
				Add Structred Report Templates
				-Abdomen (TID 5100)
				-Urology (TID SM99400)
				-Small Parts (TID SM99500)
				-Breast (TID 4200)

3.2 AUDIENCE

This document is intended for hospital staff, health system integrators, software designers or implementers. It is assumed that the reader has a working understanding of DICOM.

3.3 REMARKS

DICOM, by itself, does not guarantee interoperability. However, the Conformance Statement facilitates a first-level validation for interoperability between different applications supporting the same DICOM functionality.

This Conformance Statement is not intended to replace validation with other DICOM equipment to ensure proper exchange of information intended.

The scope of this Conformance Statement is to facilitate communication with SAMSUNG MEDISON and other vendor's Medical equipment. The Conformance Statement should be read and understood in conjunction with the DICOM Standard [DICOM]. However, it is not guaranteed to ensure by itself the desired interoperability and a successful interconnectivity.

The user should be aware of the following important issues:

- The comparison of different conformance statements is the first step towards assessing interconnectivity between

SAMSUNG MEDISON and non - SAMSUNG MEDISON equipment.

- Test procedures should be defined to validate the desired level of connectivity.
- The DICOM Standard will evolve to meet the users' future requirements. SAMSUNG MEDISON is activity involved in developing the standard further and therefore reserves the right to make changes to its products or to discontinue their delivery.

3.4 DEFINITIONS, TERMS AND ABBREVIATIONS

Definitions, terms and abbreviations used in this document are defined within the different parts of the DICOM Standard.

Abbreviations and terms are as follows:

AE DICOM Application Entity

AET Application Entity Title

ASCE Association Control Service Element

CD-R Compact Disk Recordable

FSC File-Set Creator
FSU File-Set Updater
FSR File-Set Reader

IOD (DICOM) Information Object Definition
ISO International Standard Organization
MPPS Modality Performed Procedure Step
MSPS Modality Scheduled Procedure Step

R Required Key AttributeO Optional Key Attribute

PDU DICOM Protocol Data Unit

SCU DICOM Service Class User (DICOM client)
SCP DICOM Service Class Provider (DICOM server)

SOP DICOM Service-Object Pair

U Unique Key Attribute

3.5 REFERENCES

[DICOM] Digital Imaging and Communications in Medicine (DICOM), NEMA PS 3.1-3.20, 2011

4 NETWORKING

4.1 IMPLEMENTATION MODEL

4.1.1 Application Data Flow



Figure 4.1-1
APPLICATION DATA FLOW DIAGRAM

- The Storage Application Entity sends images, Structured Reports and requests Storage Commitment to a remote AE. It is associated with the local real-world activities "Send Images & Reports" and "Request Commitments". Methods to send SOP Instances(images and Structured Reports) depend on user

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configuration, "Batch", "Send As You Go" or "Manual". "Manual" mode is performed upon user request for each study or for specific images selected. "Batch" mode starts to send SOP Instances at End Exam for each study. "Send As You Go" mode starts when the first SOP Instance is acquired for each study and SOP Instances are transferred immediately after acquisition.

If the remote AE is configured as an archive device, the Storage AE will request Storage Commitment and if a commitment is successfully obtained, it will record this information in the local database and displayed it in the Exam List.

- The Workflow Application Entity receives Worklist information from and sends MPPS information to a remote AE. It is associated with the local real-world activities "Update Worklist" and "Acquire Images". When the "Update Worklist" local real-world activity is performed, the Workflow Application Entity queries a remote AE for worklist items and provides the set of worklist items matching the query request. "Update Worklist" is performed as a result of an operator request or can be performed automatically at specific time intervals. When the "Acquire Images" local real-world activity is performed, the Workflow Application Entity creates and updates Modality Performed Procedure Step instances managed by a remote AE. Acquisition of images will result in automated creation of an MPPS Instance. Completion of the MPPS is performed at End Exam for each study.
- The Hardcopy Application Entity prints images on a remote AE (Printer). It is associated with the local real-world activity "Film Images". Methods to film Images depend on user configuration and are equal to the Sending images' of the Storage Application Entity.

4.1.2 Functional Definition of AE's

4.1.2.1 Functional Definition of Storage Application Entity

The existence of a send-job with associated network destination will activate the Storage AE. An association request is sent to the destination AEs and upon successful negotiation of a Presentation Context, the image or Structured Report transfer is started. If the association cannot be opened, the related send-job is set to an error state and can be restarted by the user via DICOM manager interface or automatically. An automatic retry (retry interval, retry count) can be configured using the Setup/DICOM Menu.

4.1.2.2 Functional Definition of Workflow Application Entity

Worklist Update attempts to download a Worklist from a remote node. If the Workflow AE establishes an association to a remote AE, it will transfer all matching worklist items via the open Association. By default,

Worklist Update use "US" for Modality, current date for Scheduled Procedure Step Start Date and blank for Scheduled Station AE-Title as query parameters. The results will be displayed in a separate list, which will be cleared with the next Worklist Update.

The Workflow AE performs the creation of an MPPS Instance automatically whenever the first SOP Instance is acquired for each study. The MPPS "Complete" or "Discontinued" states can only be set by "End Exam" for each study.

4.1.2.3 Functional Definition of Hardcopy Application Entity

The existence of a print-job will activate the Hardcopy AE. An association is established with the printers and the printer's status determined. If the printer is operating normally, the film sheets described within the print-job will be printed. If the printer is not operating normally, the print-job will set to an error state and can be restarted by the user via DICOM manager interface or automatically. An automatic retry (retry interval, retry count) can be configured using the Setup/DICOM Menu.

4.1.3 Sequencing of Real-World Activities

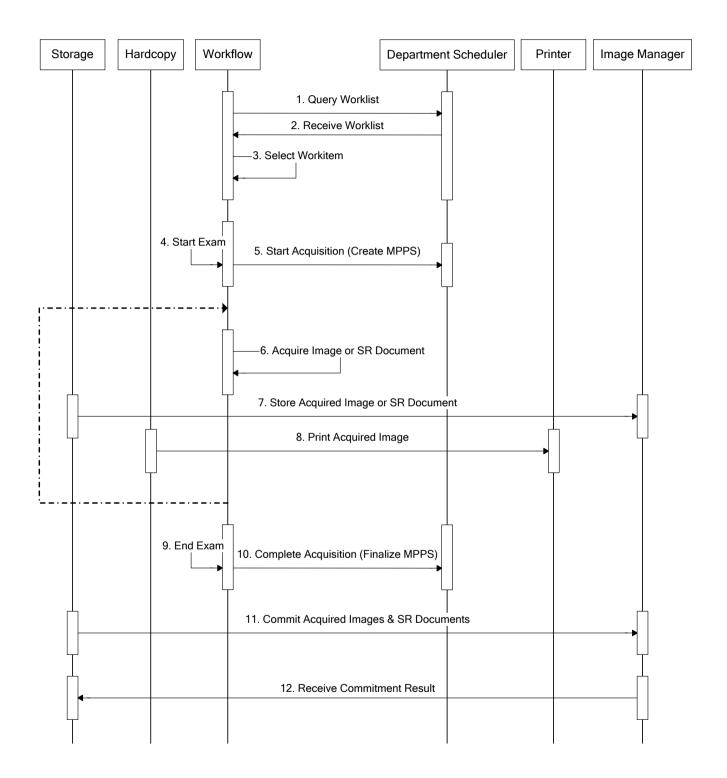


Figure 4.1-2
SEQUENCING CONTRAINTS – SEND AS YOU GO

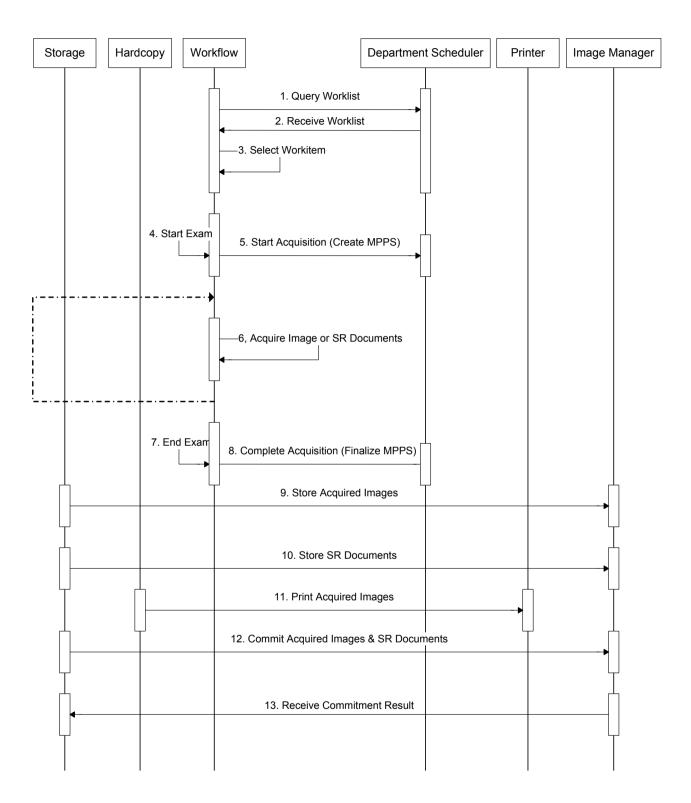


Figure 4.1-3
SEQUENCING CONSTRAINTS – BATCH MODE

Under normal scheduled workflow conditions, the sequencing constraints are illustrated in Figure 4.1-2 and Figure 4.1-3.

Other workflow situations (e.g. unscheduled procedure steps) will have other sequencing constraints. Printing could equally take place after the images acquired have been stored. Printing could be omitted completely if no printer is connected or hardcopies are not required.

4.2 AE SPECIFICATIONS

4.2.1 Storage Application Entity Specification

4.2.1.1 SOP Classes

RS80A provides Standard Conformance to the following SOP Classes:

Table 4.2-1
SOP CLASSES FOR AE STORAGE

SOP Classes	SOP Class UID	scu	SCP
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Yes	No
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Yes	No
Comprehensive Structured Report Storage	1.2.840.10008.5.1.4.1.1.88.33	Yes	No
Storage Commitment Push Model	1.2.840.10008.1.20.1	Yes	No
Verification	1.2.840.10008.1.1	Yes	Yes

4.2.1.2 Association Policies

4.2.1.2.1 General

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

Table 4.2-2
DICOM APPLICATION CONTEXT FOR AE STORAGE

Application Context Name	1.2.840.10008.3.1.1.1

4.2.1.2.2 Number of Associations

RS80A can initiate one or more Associations at a time for each destination to which a transfer request is being

processed in the active job queue list.

Table 4.2-3
NUMBER OF ASSOCIATIONS INITIATED FOR AE STORAGE

Maximum number of simultaneous Associations	Unlimited

RS80A accepts Associations to receive N-EVENT_REPORT notifications for the Storage Commitment Push Model SOP Class.

Table 4.2-4
NUMBER OF ASSOCIATIONS ACCEPTED FOR AE STORAGE

Maximum number of simultaneous Associations	Unlimited

4.2.1.2.3 Asynchronous Nature

RS80A does not support asynchronous communications (multiple outstanding transactions over a single Association).

Table 4.2-5
ASYNCHRONOUS NATURE AS A SCU FOR AE STORAGE

Maximum number of outstanding asynchronous transactions	1
---	---

4.2.1.2.4 Implementation Identifying Information

The implementation information for this Application Entity is:

Table 4.2-6
DICOM IMPLEMENTATION CLASS AND VERSION FOR AE STORAGE

Implementation Class UID	1.2.410.200001.1.11801
Implementation Version Name	RS80A

4.2.1.3 Association Initiation Policy

4.2.1.3.1 Activity – Send Images and Structured Reports and Requests Commitment

4.2.1.3.1.1 Description and Sequencing of Activities

A user can select exams or images and request them to be sent to some destination. Each request is forwarded to the job queue and processed individually. When the "Batch" or "Send As You Go" option is active, Stored images and reports will be forwarded to the network job queue for a pre-configured auto-send target destination automatically. For "Batch" and "Manual" configuration, the system opens an association, sends all images in the study, and closes the association. If "Send As You Go" is selected, the system handles the association with the Storage SCP Server using the following method.

- a. Open an Association when the first image is acquired, and keep association open until the study is closed.
- b. If an error occurs while sending an SOP Instance to the server because there is no longer an open association (server timed-out), attempt to re-establish the association.
- c. When the study is closed, close the open association after SOP Instances remained in that study are sent.

If the remote AE is configured as an archive device, the Storage AE will, after all images and reports have been sent, transmit Storage Commitment request (N-ACTION) over a separate Association. The Storage AE can only receive an N-EVENT-REPORT request in a subsequent association initiated by the SCP.

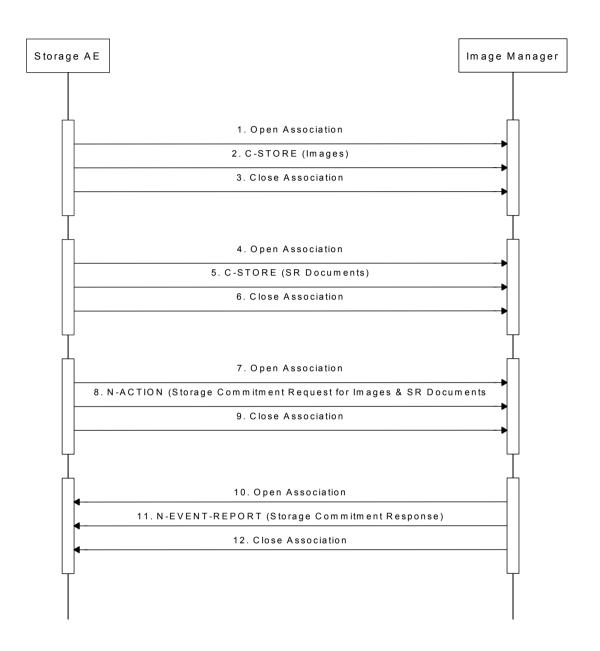


Figure 4.2-1
SEQUENCING OF ACTIVITY - SEND IMAGES AND SR DOCUMENTS

A possible sequence of interactions between the Storage AE and an Image Manager (e.g. a storage or archive device supporting the Storage and Storage Commitment SOP Classes as an SCP) is illustrated in the figure above.

NOTE: The N-EVENT-REPORT must be sent over a separate association initiated by the Image Manager. (See Section 4.2.1.4)

4.2.1.3.1.2 Proposed Presentation Contexts

RS80A is capable of proposing the Presentation Contexts shown in the following table.

Table 4.2-7
PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY SEND IMAGES

Presentation Context Table						
Abstract Syntax		Transfer S	Role	Ext.		
Name	UID	Name List	UID List		Neg.	
Ultrasound Image	1.2.840.10008.5.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None	
Storage	1.4.1.1.6.1	JPEG Lossy Baseline	1.2.840.10008.1.2.4			
			.50			
Ultrasound Multi-frame	1.2.840.10008.5.	JPEG Lossy Baseline	1.2.840.10008.1.2.4	SCU	None	
Image Storage	1.4.1.1.3.1		.50			
Comprehensive	1.2.840.10008.5.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None	
Structured Report	1.4.1.1.88.33					
Storage						
Storage Commitment	1.2.840.10008.1.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None	
Push Model	20.1	Explicit VR Little Endian	1.2.840.10008.1.2.1			
Verification	1.2.840.10008.1.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None	
	1	Explicit VR Little Endian	1.2.840.10008.1.2.1			

Presentation Contexts for Ultrasound Image Storage and Ultrasound Multi-frame Image Storage will be proposed for the "Storage" device configured in Setup/DICOM.

A Presentation Context for Comprehensive Structured Report Storage will be proposed for the "Storage SR" device configured in Setup/DICOM.

A Presentation Context for Storage Commitment Push Model will be proposed for the "SC" device configured in Setup/DICOM.

A Presentation Context for Verification will be proposed when a user press the "Test" button for a configured device.

4.2.1.3.1.3 SOP Specific Conformance Image & Comprehensive Structured Report Storage SOP Classes

All Image & Structured Report Storage SOP Classes supported by the Storage AE exhibit the same behavior, except where stated, and are described together in this section.

Table 4.2-8
STORAGE C-STORE RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has successfully stored the SOP Instance. If all SOP Instances succeed, the job is marked as complete.
Refused	Out of Resources	A700-A7FF	The association is aborted using A-ABORT and the send job is marked as failed. The status is logged.
Error	Data Set does not match SOP Class	A900-A9FF	Same as "Refused" above.
Error	Cannot Understand	C000-CFFF	Same as "Refused" above.
Warning	Coercion of Data Elements	B000	Image transmission is considered successful.
Warning	Data Set does not match SOP Class	B007	Same as "Warning" above.
Warning	Elements Discards	B006	Same as "Warning" above.
*	*	Any other status code.	Same as "Refused" above.

The Behavior of Storage AE during communication failure is summarized in the Table below:

Table 4.2-9
STORAGE COMMUNICATION FAILURE BEHAVIOR

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

A failed send job can be restarted by user interaction. The system can be configured to automatically resend failed

jobs if a transient status code is received. The delay between resending failed jobs and the number of retries is also configurable.

4.2.1.3.1.4 SOP Specific Conformance for Storage Commitment SOP Class

4.2.1.3.1.4.1 Storage Commitment Operations (N-ACTION)

The Storage AE will request storage commitment for the configured device for instances of the Ultrasound Image, Ultrasound Multi-frame Image and Structured Report Storage SOP Classes.

The Storage AE will consider Storage Commitment failed if no N-EVENT-REPORT is received for a Transaction UID within a configurable time period after receiving a successful N-ACTION response (duration of applicability for a Transaction UID).

The Storage AE does not send the optional Storage Media FileSet ID & UID Attributes or the Referenced Study Component Sequence Attribute in the N-ACTION

The Behavior of Storage AE when encountering status codes in an N-ACTION response is summarized in the Table below:

Table 4.2-10
STORAGE COMMITMENT N-ACTION RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The request for storage comment is considered successfully sent. The system waits for the association of the N-Event-Report.
*	*	Any other status code.	The Association is aborted using A-Abort and the request for storage comment is marked as failed

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

Table 4.2-11
STORAGE COMMITMENT COMMUNICATION FAILURE BEHAVIOR

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

4.2.1.3.1.4.2 Storage Commitment Notification (N-EVENT-REPORT)

The Storage AE is capable of receiving an N-EVENT-REPORT notification if it has successfully negotiated a Presentation Context for the Storage Commitment Push Model.

Upon receipt of an N-EVENT-REPORT the timer associated with the Transaction UID will be cancelled.

The behavior of Storage AE when receiving Event Types within the N-EVENT-REPORT is summarized in the Table below.

Table 4.2-12
STORAGE COMMITMENT N-EVENT-REPORT BEHAVIOR

Event Type Name	Event Type	Behavior
	ID	
Storage Commitment	1	The commit status is set to "Y" for each exam in the exam list.
Request Successful		Auto deletion for committed exam is not supported.
Storage Commitment	2	The commit status is set to "N" for each exam in the exam list.
Request Complete –		The Referenced SOP Instances under Failed SOP Sequence
Failures Exists		(0008, 1198) are logged. A send job that failed storage commitment
		will not be automatically restarted but can be restarted by user
		interaction.

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

Table 4.2-13
STORAGE COMMITMENT N-EVENT-REPORT RESPONSE STATUS REASONS

Service	Further Meening	Error	Bohovios
Status	Further Meaning	Code	Behavior
Success	Success	0000	The Storage commitment result has been successfully
0000033	Ouccess	0000	received.
Failure	Unrecognized	0211H	The Transaction UID in the N_EVENT_REPORT request is not
Fallule	Operation	021111	(was never issued within an N_ACTION request)
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	
i allule	Processing Failure	011011	N_EVENT_REPORT

4.2.1.3.1.5 SOP Specific Conformance for Verification

The Behavior when encountering status codes in a C-ECHO response is summarized in the Table below:

Table 4.2-14
VERIFICATION C-ECHO RESPONSE STATUS HANDLING BEHAVIOR

Service	Further	Error Code	Behavior
Status	Meaning		
Success	Success	0000	Verification Status is set to 'Normal'
*	*	Any other status code	Verification Status is set to 'Failed'

The Behavior of Storage AE during communication failure is summarized in the Table below:

Table 4.2-15
VERIFICATION COMMUNICATION FAILURE BEHAVIOR

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

4.2.1.4 Association Acceptance Policy

4.2.1.4.1 Activity – Receive Storage Commitment Response

4.2.1.4.1.1 Description and Sequence of Activities

The Storage AE will accept associations in order to receive responses to a Storage Commitment Request.

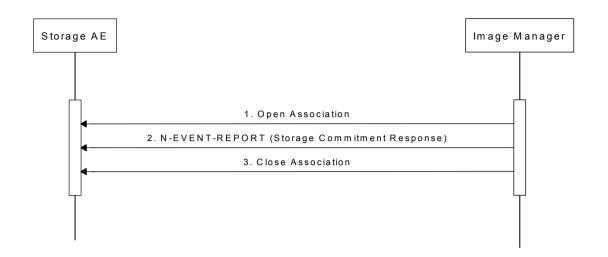


Figure 4.2-2
SEQUENCING OF ACTIVITY - RECEIVE STORAGE COMMITMENT RESPONSE

A possible sequence of interactions between the Storage AE and an Image Manager (e.g. a storage or archive device supporting Storage Commitment SOP Classes as an SCP) is illustrated in the Figure above:

- 1. The Image Manager opens a new association with the Storage AE.
- 2. The Image Manager sends an N-EVENT-REPORT request notifying the Storage AE of the status of a previous Storage Commitment Request. The Storage AE replies with an N-EVENT-REPORT response confirming receipt.
- 3. The Image Manager closes the association with the Storage AE.

4.2.1.4.1.2 Accepted Presentation Contexts

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

Table 4.2-16
ACCEPTABLE PRESENTATION CONTEXTS FOR ACTIVITY
RECEIVE STORAGE COMMITMENT RESPONSE

Presentation Context Table						
Abstrac	t Syntax	Transfer S	Role	Ext.		
Name	UID	Name List UID List			Neg.	

Storage	1.2.840.10008.1.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
Commitment	20.1	Explicit VR Little Endian	1.2.840.10008.1.2.1		
Push Model					
Verification	1.2.840.10008.1.	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
	1	Explicit VR Little Endian	1.2.840.10008.1.2.1		

4.2.1.4.1.3 SOP Specific Conformance for Storage Commitment SOP Class

4.2.1.4.1.3.1 Storage Commitment Notifications (N-EVENT-REPORT)

Upon receipt of an N-EVENT-REPORT the timer associated with the Transaction UID will be cancelled.

The behavior of Storage AE when receiving Event Types within the N-EVENT_REPORT is summarized in Table 4.2-12.

The reasons for returning specific status codes in an N-EVENT-REPORT response are summarized in Table 4.2-13.

4.2.1.4.1.4 SOP Specific Conformance for Verification SOP Class

The Storage AE provides standard conformance to the Verification SOP Class as an SCP. If the C-ECHO request was successfully received, a 0000 (Success) status code will be returned in the C-ECHO response.

4.2.2 Workflow Application Entity Specification

4.2.2.1 SOP Classes

RS80A provides Standard Conformance to the following SOP Classes:

Table 4.2-17
SOP CLASSES FOR AE WORKFLOW

SOP Classes	SOP Class UID	scu	SCP
Modality Worklist Information Model – FIND	1.2.840.10008.5.1.4.31	Yes	No
Modality Performed Procedure Step	1.2.840.10008.3.1.2.3.3	Yes	No

4.2.2.2 Association Establishment Policy

4.2.2.2.1 General

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

Table 4.2-18 DICOM APPLICATION CONTEXT FOR AE WORKFLOW

Application Context Name	1.2.840.10008.3.1.1.1

4.2.2.2.2 Number of Associations

RS80A initiates one Association at a time for a Worklist request.

Table 4.2-19

NUMBER OF ASSOCIATIONS INITIATED FOR AE WORKFLOW

Maximum number of simultaneous Associations	1

4.2.2.2.3 Asynchronous Nature

RS80A does not support asynchronous communications (multiple outstanding transactions over a single Association)

Table 4.2-20

ASYNCHRONOUS NATURE AS A SCU FOR AE WORKFLOW

Maximum number of outstanding asynchronous transactions	1

4.2.2.2.4 Implementation Identifying Information

The implementation information for this Application Entity is:

Table 4.2-21

DICOM IMPLEMENTATION CLASS AND VERSION FOR AE WORKFLOW

Implementation Class UID	1.2.410.200001.1.11801
Implementation Version Name	RS80A

4.2.2.3 Association Initiation Policy

4.2.2.3.1 Activity – Worklist Update

4.2.2.3.1.1 Description and Sequencing of Activities

The request for a Worklist Update is initiated by user interaction or automatically at specific time intervals, configurable by the user.

The interactive Worklist Query will display a dialog for entering data as search criteria. When the Query is started on your request, only the data from the dialog will be inserted as matching keys into the query.

With automated worklist queries the RS80A always requests all items for a Scheduled Procedure Step Start Date (actual date), Modality (US) and Scheduled Station AE Title.

Upon initiation of the request, the RS80A will build an Identifier for the C-FIND request, will initiate an Association to send the request and will wait for Worklist responses. After retrieval of all responses, RS80A will access the local database to add patient demographic data. The results will be displayed in a separate list, which will be cleared with the next worklist update.

RS80A will initiate an Association in order to issue a C-FIND request according to the Modality Worklist Information Model.

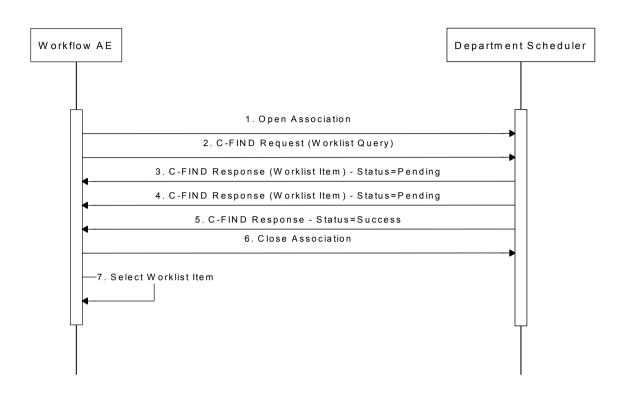


Figure 4.2-3
SEQUENCING OF ACTIVITY - WORKLIST UPDATE

A possible sequence of interactions between the Workflow AE and a Departmental Scheduler (e.g. a device such as a RIS or HIS which supports the Modality Worklist SOP Class as an SCP) is illustrated in the figure above:

4.2.2.3.1.2 Proposed Presentation Contexts

RS80A will propose Presentation Contexts as shown in the following table:

Table 4.2-22
PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY WORKLIST UPDATE

Presentation Context Table							
Abstract	Syntax	Transfer	Syntax	Role	Ext.		
Name	UID	Name List UID List			Neg.		
Modality Worklist	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None		
Information	5.1.4.31	Explicit VR Little Endian	1.2.840.10008. 1.2.1				
Model - FIND							

4.2.2.3.1.3 SOP Specific Conformance for Modality Worklist

The behavior of RS80A when encountering status codes in a Modality Worklist C-FIND response is summarized in the Table below. If any other SCP response status than "Success" or "Pending" is received by RS80A, a message "Query failed" will appear on the user interface.

Table 4.2-23
MODALITY WORKLIST C-FIND RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Matching is complete	0000	The SCP has Completed the operation successfully.
Pending	Matches are continuing	FF00	Continue.
Pending	Matches are continuing - Warning that one or more Optional Keys were not supported	FF01	Continue.
*	*	Any other status code.	The Association is aborted using A-Abort and the Worklist is marked as failed

The behavior of RS80A during communication failure is summarized in the Table below.

Table 4.2-24
MODALITY WORKLIST COMMUNICATION FAILURE BEHAVIOR

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

Acquired images will always use the Study Instance UID specified for the Scheduled Procedure Step (if available). If an acquisition is unscheduled, a Study Instance UID will be generated locally.

The Table below provides a description of the RS80A Worklist Request Identifier and specifies the attributes that are copied into the images. Unexpected attributes returned in a C-FIND response are ignored.

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

Table 4.2-25
WORKLIST REQUEST IDENTIFIER

Module Name	Tog	VR	м	R	Q	D	IOD
Attribute Name	Tag	VK	IVI	K	Q	ן	IOL
Scheduled Procedure Step							
Scheduled Procedure Step Sequence	0040,0100	SQ		х			
> Scheduled Station AET	0040,0001	AE	(S)	х	х		
> Scheduled Procedure Step Start Date	0040,0002	DA	S,R	х	х	х	
> Scheduled Procedure Step Start Time	0040,0003	TM		х		х	
> Modality	0008,0060	CS	s	х	х		
> Scheduled Performing Physician's Name	0040,0006	PN		х			
> Scheduled Procedure Step Description	0040,0007	LO		х		х	х
> Scheduled Station Name	0040,0010	SH	S	х	х		
> Scheduled Procedure Step Location	0040,0011	SH	s	х	х		
> Scheduled Protocol Code Sequence	0040,0008	SQ		х			х
> Scheduled Procedure Step ID	0040,0009	SH		х			х
Requested Procedure							
Requested Procedure ID	0040,1001	SH		х		Х	х
Requested Procedure Description	0032,1060	LO		х			
Study Instance UID	0020,000D	UI		х			х
Referenced Study Sequence	0008,1110	SQ		х			х
Requested Procedure Code Sequence	0032,1064	SQ		х			х
Imaging Service Request							
Accession Number	0008,0050	SH		x		х	х
Requesting Physician	0032,1032	PN		х			
Referring Physician's Name	0008,0090	PN		х		х	х
Visit Status							
Current Patient Location	0038,0300	LO		х			
Patient Identification							
Patient's Name	0010.0010	PN		х		х	х
Patient ID	0010,0020	LO		х		х	х
Patient Demographic		1	1				

Patient's Birth Date	0010,0030	DA	Х	х	x
Patient's Sex	0010,0040	CS	Х	х	х
Patient's Size	0010,1020	DS	Х	х	х
Patient's Weight	0010,1030	DS	Х	х	х
Patient Medical					
Last Menstrual Date	0010,21D0	DA	Х	х	x

The above table should read as follows:

Module Name: The Name of the associated module for supported worklist attributes.

Attribute Name: Attributes supported to build an RS80A Worklist Request Identifier.

Tag: DICOM tag for this attribute.

VR: DICOM VR for this attribute.

M: Matching keys for (automatic) Worklist Update. An "S" indicates that RS80A supplies an attribute

value for Single Value Matching or additional specific tags indicated by "(S)"; an "R" will indicate

Range Matching.

R: Return keys. An "X" will indicate that RS80A will supply this attribute as Return Key with zero

length for Universal Matching.

Q: Interactive Query Key. An "X" will indicate that RS80A will supply this attribute as matching key, if

entered in the Setup Dialog.

D: Displayed keys. An "X" indicates that this worklist attribute is displayed to the user during a

patient registration dialog.

IOD: An "X" indicates that this Worklist attribute is included into all Object Instances created during

performance of the related Procedure Step.

4.2.2.3.2 Activity – Acquire Images

4.2.2.3.2.1 Description and Sequencing of Activities

An Association to the configured MPPS SCP system is established immediately after the first SOP Instance is acquired to send the MPPS N-Create message.

The "End Exam" button causes a message box in which a user can select "COMPLETED" or "DISCONTINUED" as a MPPS final state. An exam for which an MPPS instance is sent with a state of "COMPLETED" or "DISCONTINUED" can no longer be updated.

The RS80A will support creation of "unscheduled cases" by allowing MPPS Instances to be communicated for locally registered Patients.

The RS80A supports a 1-to-N relationship between Scheduled and Performed Procedure Steps.

RS80A will initiate an Association to issue an:

- N-CREATE request according to the CREATE Modality Performed Procedure Step SOP Instance operation, or an:
- N-SET request to update the contents and state of the MPPS according to the SET Modality Performed
 Procedure Step Information operation.

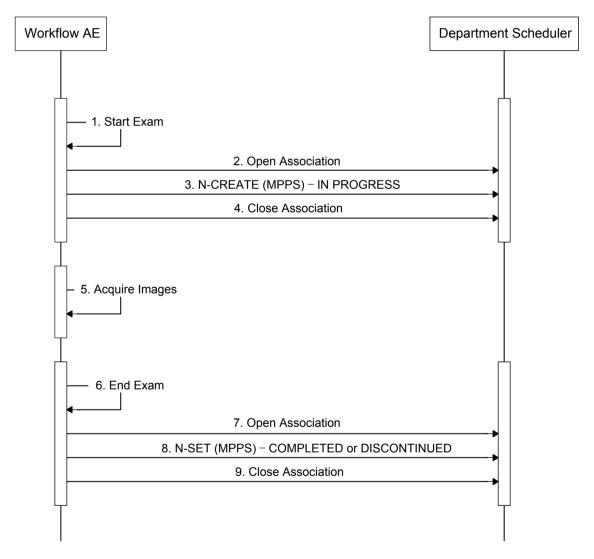


Figure 4.2-4
SEQUENCING OF ACTIVITY - ACQUIRE IMAGES

A possible sequence of interactions between the Workflow AE and a Departmental Scheduler (e.g. a device such

as a RIS or HIS which supports the MPPS SOP Class as an SCP) is illustrated in the figure above:

4.2.2.3.2.2 Proposed Presentation Contexts

RS80A will propose Presentation Contexts as shown in the following table:

Table 4.2-26
PROPOSED PRESENTATION CONTEXTS FOR REAL-WORLD ACTIVITY ACQUIRE IMAGES

Presentation Context Table						
Abstract S	yntax	Transfer Syntax		Role	Ext.	
Name	UID	Name List	UID List		Neg.	
Modality Performed	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None	
Procedure Step	3.1.2.3.3	Explicit VR Little Endian	1.2.840.10008. 1.2.1			

4.2.2.3.2.3 SOP Specific Conformance for MPPS

The behavior of RS80A when encountering status codes in an MPPS N-CREATE or N-SET response is summarized in the Table below. If any other SCP response status than "Success" or "Warning" is received by RS80A, a message "MPPS failed" will appear on the user interface.

Table 4.2-27
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		
		0000	successfully.		
Marning	Attribute Value Out of	0116H	The MDDS Operation is considered everyonally		
Warning	Range	OTION	The MPPS Operation is considered successful.		
*	*	Any other status	The Association is aborted using A-Abort and the		
		code.	MPPS is marked as failed		

The behavior of RS80A during communication failure is summarized in the table below:

Table 4.2-28

MPPS COMMUNICATION FAILURE BEHAVIOR

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

Table 4.2-29 provides a description of the MPPS N-CREATE and N-SET request identifiers send by RS80A. Empty cells in the N-CREATE and N-SET columns indicate that the attribute is not sent.

Table 4.2-29
MPPS N-CREATE / N-SET REQUEST IDENTIFIER

Attribute Name	Tag	VR	N-CREATE	N-SET	
Specific Character Set	0008,0005	cs	Ref. Section 6 SUPPORT		
Specific Character Set			OF CHARACTER SETS		
Performed Procedure Step Relationship					
Scheduled Step Attribute	0040 0070	SQ			
Sequence	0040,0270	SQ			
Objects to a target 1975	0020,000D	UI	From MWL or generated		
> Study Instance UID			by device		
> Referenced Study Sequence	0008,1110	SQ	From MWL		
>> Referenced SOP Class UID	0008.1150	UI	From MWL		
>> Referenced SOP Instance	0009 1155	111	From MWL		
UID	0008,1155	UI	FIOIII WIVVL		
> Accession Number	0008,0050	SH	From MWL or user input		
> Requested Procedure ID	0040,1001	SH	From MWL		
> Requested Procedure	sted Procedure		From MWL		
Description	0032,1060	LO	FIOIII WIVVL		
> Scheduled Procedure Step	0040,0009	SH	From MWL		
ID	0040,0009	эп	FIOIII WIVVL		
> Scheduled Procedure Step	0040 0007	LO	From MWL		
Description	0040,0007		FIOHI WIVVL		
> Scheduled Protocol Code	0040,0008	SQ	From MWL		
Sequence	0040,0008		FIOHI WIVVL		

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>> Code Value	0008,0100	SH	From MWL	
>> Coding Scheme Designator	0008,0102	SH	From MWL	
>> Coding Scheme Version	0008,0103	SH	From MWL	
>> Code Meaning	0008,0104	LO	From MWL	
Patient's Name	0010,0010	PN	From MWL or user input	
Patient ID	0010,0020	LO	From MWL or user input	
Patient's Birth Date	0010,0030	DA	From MWL or user input	
Patient's Sex	0010,0040	CS	From MWL or user input	
Referenced Patient Sequence	0008,1120	SQ	Zero length	
> Referenced SOP Class UID	0008,1150	UI	Zero length	
> Referenced Instance UID	0008,1155	UI	Zero length	
	Performed P	rocedu	re Step Information	
			Generated by device	
Performed Procedure Step ID	0040,0253	SH	(Study Date + Study	
			Time)	
Performed Station AE Title	0040,0241	AE	From Modality Setup	
Performed Station Name	0040,0242	SH	From Modality Setup	
Performed Location	0040,0243	SH	Zero length	
Performed Procedure Step Start Date	0040,0244	DA	Actual Start Date	
Performed Procedure Step Start Time	0040,0245	ТМ	Actual Start Time	
Performed Procedure Step Status	0040,0252	cs	"IN PROGRESS"	"COMPLETED" or "DISCONTINUED"
D (1D 1 0)	re Step 0040,0254	LO	From MWL or user input	From MWL or user input
Performed Procedure Step			(Same as Study	(Same as Study
Description			Description)	Description)
Performed Procedure Type	0040,0255	LO	Zero length	Zero length
Description				g
Procedure Code Sequence	0008,1032	SQ	From MWL	From MWL
> Code Value	0008,0100	SH	From MWL	From MWL
> Coding Scheme Designator	0008,0102	SH	From MWL	From MWL
> Coding Scheme Version	0008,0103	SH	From MWL	From MWL
> Code Meaning	0008,0104	LO	From MWL	From MWL

Performed Procedure Step End Date	0040,0250	DA	Zero length	Actual End Date
Performed Procedure Step End Time	0040,0251	ТМ	Zero length	Actual End Time
Performed Procedure Step Discontinuation Reason Code Sequence	0040,0281	SQ		Used when Performed Procedure Step Status is "DISCONTINUED"
> Code Value	0008,0100	SH		From User Select
> Coding Scheme Designator	0008,0102	SH		From User Select
> Coding Scheme Version	0008,0103	SH		
> Code Meaning	0008,0104	LO		From user select
	Image	Acquis	sition Results	•
Modality	0008,0060	CS	"US"	
Study ID	0020,0010	SH	Requested Procedure ID or Generated by device (Study Date + Study Time)	
Performed Protocol Code Sequence	0040,0260	SQ	Zero length	
Performed Series Sequence	0040,0340	SQ	Zero length	One or more items
> Performed Physician's Name	0008,1050	PN		From user input
> Protocol Name	0018,1030	LO		"FreeForm"
> Operator's Name	0008,1070	PN		From user input
> Series Instance UID	0020,000E	UI		Generated by device
> Series Description	0008,103E	LO		Zero length
> Retrieve AE Title	0008,0054	AE		Zero length
> Referenced Image Sequence	0008,1140	SQ		From Modality
>> Referenced SOP Class UID	0008,1150	UI		From Modality
>> Referenced SOP Instance UID	0008,1155	UI		From Modality
> Referenced Non-Image Composite SOP Instance Sequence	0040,0220	SQ		From Modality

>> Referenced SOP Class UID	0008,1150	UI	From Modality
>> Referenced SOP Instance	0008,1155	UI	From Modality
UID	0000,1155	01	From wodality

4.2.2.4 Association Acceptance Policy

The Workflow Application Entity does not accept Associations.

4.2.3 Hardcopy Application Entity Specification

4.2.3.1 SOP Classes

RS80A provides Standard Conformance to the following SOP Classes:

Table 4.2-30
SOP CLASSES FOR AE HARDCOPY

SOP Classes	SOP Class UID	SCU	SCP
Basic Grayscale Print Management Meta	1.2.840.10008.5.1.1.9	Yes	No
Basic Color Print Management Meta	1.2.840.10008.5.1.1.18	Yes	No

4.2.3.2 Association Policies

4.2.3.2.1 General

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

Table 4.2-31
DICOM APPLICATION CONTEXT FOR AE HARDCOPY

Application Context Name	1.2.840.10008.3.1.1.1

4.2.3.2.2 Number of Association

RS80A can initiate one or more Associations at a time for each destination to which a transfer request is being processed in the active job queue list.

Table 4.2-32

NUMBER OF ASSOCIATIONS INITIATED FOR AE HARDCOPY

Maximum number of simultaneous Associations	Unlimited (number of configured
	hardcopy devices)

4.2.3.2.3 Asynchronous Nature

RS80A does not support asynchronous communications (multiple outstanding transactions over a single Association)

Table 4.2-33 ASYNCHRONOUS NATURE AS A SCU FOR AE HARDCOPY

Maximum number of outstanding asynchronous transactions	1
---	---

4.2.3.2.4 Implementation Identifying Information

The implementation information for this Application Entity is:

Table 4.2-34

DICOM IMPLEMENTATION CLASS AND VERSION FOR AE HARDCOPY

Implementation Class UID	1.2.410.200001.1.11801
Implementation Version Name	RS80A

4.2.3.3 Association Initiation Policy

4.2.3.3.1 Activity – Film Images

4.2.3.3.1.1 Description and Sequencing of Activities

A user composes images onto film sheets and requests them to be sent to a specific hardcopy device. The user can select the desired film format and number of copies. Each print-job is forwarded to the job queue and processed individually.

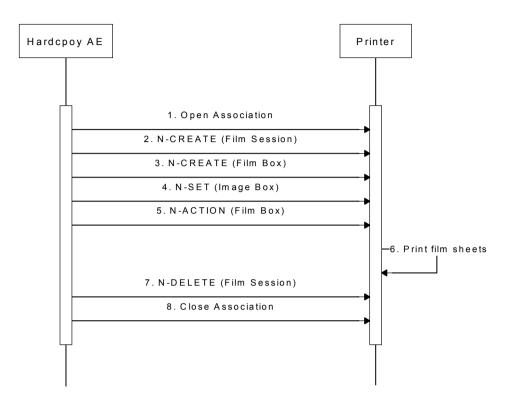


Figure 4.2-5
SEQUENCING OF ACTIVITY - FILM IMAGES

A typical sequence of DIMSE messages sent over an association between Hardcopy AE and a Printer is illustrated in the Figure above:

Association Initiation Policies for "Batch", "Send As You Go" and "Manual" Mode are equal to the Sending images' of the Storage Application Entity. (See 4.2.1.3.1.1)

Status of the print-job is reported through the job control interface. One or more job can be active at a time for each separate hardcopy device. If any response from the remote Application contains a status other than Success or Warning, the Association is aborted and the related job is switched to a failed state. It can be restarted any time by user interaction or, if configured, by automated retry.

4.2.3.3.1.2 Proposed Presentation Contexts

RS80A is capable of proposing the Presentation Contexts shown in the Table below:

Table 4.2-35

PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY FILM IMAGES

Presentation Context Table						
Abstract Syntax		Transfer Syntax			Ext.	
Name	UID	Name List	UID List		Neg.	
Basic Grayscale Print	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None	
Management Meta	5.1.1.9	Explicit VR Little Endian	1.2.840.10008.1.2.1			
Basic Color Print	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None	
Management Meta	5.1.1.18	Explicit VR Little Endian	1.2.840.10008.1.2.1			

4.2.3.3.1.3 Common SOP Specific Conformance for all Print SOP Classes

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

Table 4.2-36
HARDCOPY 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.

4.2.3.3.1.4 SOP Specific Conformance for the Film Session SOP Class

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

- N-CREATE
- N-DELETE

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

4.2.3.3.1.4.1 Film Session SOP Class Operations (N-CREATE)

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

Table 4.2-37 FILM SESSION SOP CLASS N-CREATE REQUEST ATTRIBUTES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Number of Copies	2000,0010	IS	199	ALWAYS	USER
Print Priority	2000,0020	cs	HIGH, MED or LOW	ALWAYS	USER
			PAPER, CLEAR FILM, BLUE		
Medium Type	2000,0030	cs	FILM, MAMMO CLEAR FILM	ALWAYS	USER
			or MAMMO BLUE FILM		
Film Destination	2000,0040	cs	MAGAZINE or PROCESSOR	ALWAYS	USER

The Behavior of Hardcopy AE when encountering status codes in an N-CREATE response is summarized in the table below:

Table 4.2-38
FILM SESSION SOP CLASS N-CREATE RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has Completed the operation successfully.
Warning	Attribute Value Out of Range	0116H	System continues operations.
Warning	Attribute List Error	0107H	Same as above
*	*	Any other status code.	The Association is aborted using A-Abort and the print-job is marked as failed

4.2.3.3.1.4.2 Film Session SOP Class Operations (N-DELETE)

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

Table 4.2-39
PRINTER SOP CLASS N-DELETE RESONSE STATUS HANDLING BEHAVIOR

Service	Further	Error	
Status	Meaning	Code	
Success	Success	0000	The SCP has Completed the operation successfully.

*	*	Any other status code.	The Association is aborted using A-Abort and the print-job is marked as failed
---	---	------------------------	--

4.2.3.3.1.5 SOP Specific Conformance for the Film Box SOP Class

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

- N-CREATE
- N-ACTION

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

4.2.3.3.1.5.1 Film Box SOP Class Operations (N-CREATE)

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

Table 4.2-40
FILM BOX SOP CLASS N-CREATE REQUEST ATTRIBUTES

Attribute Name	Tog	VR	Value	Presence	Source
Attribute Name	Tag	VK	value	of Value	Source
Image Display Format	2010,0010	ST	"STANDARD\1, 1", "STANDARD\1, 2", "STANDARD\2, 2", "STANDARD\2, 3", "STANDARD\3, 3", "STANDARD\3, 4", "STANDARD\3, 5", "STANDARD\4, 4", "STANDARD\4, 5" or "STANDARD\4, 6"	ALWAYS	USER
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	USER
Film Size ID	2010,0050	cs	8INX10IN, 8_5INX11IN, 10INX12IN, 10INX14IN, 11INX14IN, 11INX17IN, 14INX14IN, 14INX17IN, 24CMX24CM, 24CMX30CM, A4, A3	ALWAYS	USER
Magnification Type	2010,0060	cs	REPLICATE, BILINEAR, CUBIC, NONE	ALWAYS	USER
Max Density	2010,0130	US	0 ~	ANAP	USER
Configuration Information	2010,0150	ST	Values are defined in Print Conformance Statement	ANAP	USER
Smoothing Type	2010,0080	cs	Values are defined in Print Conformance Statement	ANAP	USER
Border Density	2010,0100	CS	BLACK or WHITE	ALWAYS	USER
Empty Image Density	2010,0110	cs	BLACK or WHITE	ALWAYS	USER
Min Density	2010,0120	US	0 ~	ANAP	USER

The behavior of Hardcopy AE when encountering status codes in an N-CREATE responses is summarized in the table below:

Table 4.2-41
FILM BOX SOP CLASS N-CREATE RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has Completed the operation successfully.
Warning	Attribute Value Out of Range	0116H	System continues operations.

Warning	Attribute List Error	0107H	Same as above
Warning	Requested Min Density or Max Density outside of printer's operating range	B605H	Same as above
*	*	Any other status code.	The Association is aborted using A-Abort and the print-job is marked as failed

4.2.3.3.1.5.2 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 behavior of Hardcopy AE when encountering status codes in an N-ACTION responses is summarized in the table below:

Table 4.2-42
FILM BOX CLASS N-ACTION RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has Completed the operation successfully.
*	*	Any other status code.	The Association is aborted using A-Abort and the print-job is marked as failed

4.2.3.3.1.6 SOP Specific Conformance for the Film Box SOP Class

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

- N-SET

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

4.2.3.3.1.6.1 Image Box SOP Class Operations (N-SET)

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

Table 4.2-43
BASIC GRAYSCALE IMAGE BOX SOP CLASS N-SET REQUEST ATTRIBUTES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Image Position	2020,0010	US	1 N (N = Row * Column of Film Box)	ALWAYS	AUTO
Basic Grayscale Image Sequence	2020,0110	SQ		ALWAYS	AUTO
> Samples Per Pixel	0028,0002	US	1	ALWAYS	AUTO
> Photometric Interpretation	0028,0004	cs	MONOCHROME2	ALWAYS	AUTO
> Rows	0028,0010	US	Number of Row Pixels of Image	ALWAYS	AUTO
> Columns	0028,0011	US	Number of Column Pixels of Image	ALWAYS	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	ОВ	Pixels of Image	ALWAYS	AUTO

Table 4.2-44
BASIC COLOR IMAGE BOX SOP CLASS N-SET REQUEST ATTRIBUTES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Image Position	2020,0010	US	1 N (N = Row * Column of Film Box)	ALWAYS	AUTO
N. Osamalas Ban Biral	0000 0000		,	A L \A\\A\\C	ALITO
> Samples Per Pixel	0028,0002	US	3	ALWAYS	AUTO
> Photometric	0028,0004	CS	RGB	ALWAYS	AUTO
Interpretation	0020,0004		NOD	ALWATO	7010

> Planar Configuration	0028,0006	US	1	ALWAYS	AUTO
> Rows	0028,0010	US	Number of Row Pixels of Image	ALWAYS	AUTO
. 0.1	0000 0044		Number of Column Pixels of	41,14,43,40	ALITO
> Columns	0028,0011	US	Image	ALWAYS	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	0029 0102	US	0	ALWAYS	AUTO
Representation	0028,0103	US	U	ALWATS	AUTO
> Pixel Data	7FE0,0010	ОВ	Pixels of Image	ALWAYS	AUTO

The behavior of Hardcopy AE when encountering status codes in an N-SET response is summarized in the table below:

Table 4.2-45
IMAGE BOX SOP CLASS N-SET RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has Completed the operation successfully.
*	*	Any other status code.	The Association is aborted using A-Abort and the print-job is marked as failed

4.2.3.4 Association Acceptance Policy

The Hardcopy Application Entity does not accept Associations.

4.3 NETWORK INTERFACE

4.3.1 Physical Network Interface

RS80A supports a single network interface. One of the following physical network interfaces will be available depending on hardware options installed:

Table 4.3-1
SUPPORTED PHYSICAL NETWORK INTERFACES

Ethernet 100baseT	
Ethernet 10baseT	

4.4 CONFIGURATION

4.4.1 AE Title/Presentation Address Mapping

4.4.1.1 Local AE Titles

All local applications use the AE Titles and TCP/IP Ports configured via the Setup/DICOM Menu. All local DICOM services use the same AE Title. The system listens for Verification requests and Commitment reports on the configured Port.

4.4.1.2 Remote AE Title/Presentation Address Mapping

The AE Title, host names and port numbers of remote applications are configured using the RS80A Setup/DICOM Menu.

4.4.1.2.1 Storage

The Add button on the RS80A Setup/DICOM Menu must be used to set the AE Titles, port-numbers, IP addresses and capabilities for the remote Image Storage SCPs. Multiple remote Image Storage SCPs can be defined.

The Add button on the RS80A Setup/DICOM Menu must be used to set the AE Titles, port-numbers, IP addresses and capabilities for the remote Structured Report Storage SCP. Only a single remote Structured Report Storage SCP can be defined.

The Add button on the RS80A Setup/DICOM Menu must be used to set the AE Titles, port-numbers, IP addresses and capabilities for the remote Storage Commitment SCP. Only a single remote Storage Commitment SCP can be defined and only one Image Storage SCP can be assigned for Storage Commitment.

4.4.1.2.2 Workflow

The Add button on the RS80A Setup/DICOM Menu must be used to set the AE Titles, port-numbers, IP addresses and capabilities for the remote Modality Worklist SCP. Only a single remote Modality Worklist SCP can be defined.

The Add button on the RS80A Setup/DICOM Menu must be used to set the AE Titles, port-numbers, IP addresses and capabilities for the remote MPPS SCP. Only a single remote MPPS SCP can be defined.

4.4.1.2.3 Hardcopy

The Add button on the RS80A Setup/DICOM Menu must be used to set the AE Titles, port-numbers, IP addresses and capabilities for the remote Print SCPs. Multiple remote Print SCPs can be defined.

4.4.2 Parameters

A number of parameters related to acquisition and general operation can be configured using the Setup/DICOM Menu. The Table below only shows those configuration parameters relevant to DICOM communications. See the RS80A Manual for details on general configuration capabilities.

Table 4.4-1
CONFIGURATION PARAMETERS TABLE

Parameter	Configurable	Default Value
	(Yes/No)	
Local System Parameter	ers	
AE Title (Local System AE Title)	Yes	"Set AE Title"
Station Name	Yes	"Set Station Name"
Port No. (Local Port Number)	Yes	104
DICOM Send Format Parai	meters	
2D Mode	Yes	Color
Color Mode	Yes	Color

DICOM Compression P	arameters	
Still Image	Yes	Uncompressed
Service Common Par	rameters	
Retry Interval	Yes	30 Sec.
Connect Timeout	Yes	15 Sec.
Maximum Retires	Yes	1
Storage Parame	ters	•
Transfer Mode	Yes	"Batch"
Include 3D Volume	Yes	Unchecked
Send Cine Loops	Yes	Checked
Include Pixel Spacing	Yes	Unchecked
Window Center (VOI LUT)	Yes	128
Window Width (VOI LUT)	Yes	256
Storage SR Parar	nater	·
Trasfer Moder	Yes	"Batch"
Performed Procedure Ste	p Parameters	·
Always complete exams	Yes	Checked
Storage Commitment F	arameters	·
Associated Storage Server	Yes	None
Worklist Modality Pa	rameters	·
Delay between automatic Worklist Updates	Yes	5 Min.
Query Worklist for specific Scheduled Station AE Title	Yes	Any (Blank Value)
Query Worklist for specific Scheduled Modality Value	Yes	US
Query Worklist for Specific Start Date	Yes	Today
Print Paramete	ers	·
Transfer Mode	Yes	"Batch"
Color	Yes	"Grayscale"
Medium Type	Yes	"PAPER"
Format	Yes	1x1
Film Size	Yes	8 IN X 10 IN
Orientation	Yes	"PORTRAIT"
Destination	Yes	"MAGAZINE"
Magnification	Yes	"REPLICATE"
Smoothing Type	Yes	Blank
Border Density	Yes	"BLACK"

Empty Density	Yes	"BLACK"
Priority	Yes	"HIGH"
Min Density	Yes	Blank
Max Density	Yes	Blank
Copies	Yes	1
Configuration Info	Yes	Blank

5 MEDIA INTERCHANGE

5.1 IMPLEMENTATION MODEL

5.1.1 Application Data Flow

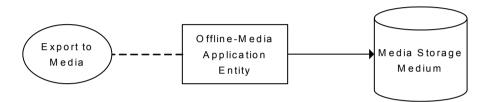


Figure 5.1-1
APPLICATION DATA FLOW DIAGRAM FOR MEDIA STORAGE

- The Offline-Media Application Entity exports images and Structured Report to a Media Storage medium. It is associated with the local real-world activity "Export to Media", "Export to Media" is performed upon user request for selected studies.

5.1.2 Functional Definition of AEs

5.1.2.1 Functional Definition of Offline-Media Application Entity

Activation of the "Export to Media" menu entry will pass the currently selected studies to the Offline-Media Application Entity. The SOP Instances associated with the selection will be collected into one or more export jobs. The contents of each export job will be written to a single media.

5.1.3 Sequencing of Real-World Activities

At least one study must exist and be selected before the Offline-Media Application Entity can be invoked. The operator can insert a new media at any time before or after invocation of the Offline-Media Application Entity. If no media is available the export job can be cancelled immediately.

5.1.4 File Meta Information Options

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

Table 5.1-1

DICOM IMPLEMENTATION CLASS AND VERSION FOR MEDIA STORAGE

Implementation Class UID	1.2.410.200001.1.11801
Implementation Version Name	RS80A

5.2 AE SPECIFICATIONS

5.2.1 Offline-Media Application Entity Specification

The Offline-Media Application Entity provides standard conformance to the Media Storage Service Class. The Application Profiles and roles are listed below:

Table 5.2-1
APPLICATION PROFILES, ACTIVITIES AND ROLES FOR OFFLINE-MEDIA

Application Profiles Supported	Real World Activity	Role
STD-US-SC-MF-CDR	Export To Media	FSC, FSU
STD-US-SC-MF-DVD	Export To Media	FSC, FSU

5.2.1.1 File Meta Information for the Application Entity

The File-Set Identifier included in the File Meta Header is "MED FSU".

5.2.1.2 Real-World Activities

5.2.1.2.1 Activity – Export to Media

The Offline-Media Application Entity acts as an FSC and FSU when requested to export SOP Instances from the local database to a media.

If the contents of the current selection do not fit on a single media, a separation into multiple export jobs which can be adapted by the user will be suggested.

The user will be prompted to insert a media for each export job. The contents of the export job will be written together with a corresponding DICOMDIR to a media. Writing in multi-session mode is supported.

5.2.1.2.1.1 Media Storage Application Profiles

The Offline-Media Application Entity supports the STD-US-SC-MF-CDR and STD-US-SC-MF-DVD Application Profile.

5.2.1.2.1.1.1 Options

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

Table 5.2-2 IODS, SOP CLASSES AND TRANSFER SYNTAXES FOR OFFLINE MEDIA

Information Object	SOP Class UID	Transfer Syntax	Transfer Syntax UID	
Definition				
Media Storage Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian	1.2.840.10008.1.2.1	
Storage				
US Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Explicit VR Little Endian	1.2.840.10008.1.2.1	
		JPEG Baseline Lossy	1.2.840.10008.1.2.4.50	
		Compression		
US Multiframe Image	1.2.840.10008.5.1.4.1.1.3.1	JPEG Baseline Lossy	1.2.840.10008.1.2.4.50	
Storage		Compression		
Comprehensive Structured	1.2.840.10008.5.1.4.1.1.88.3	Explicit VR Little Endian	1.2.840.10008.1.2.1	
Report Storage	3			

6 SUPPORT OF CHARACTER SETS

All RS80A DICOM applications support the

ISO_IR 100 : Latin Alphabet No. 1

Supplementary set of ISO 8859
ISO 646

\ISO 2022 IR 149 : Korean

KS X 1001 Hangle and Hanja
ISO 646

ISO 2000 IR 13\ISO 2022 IR 87 : Japanese

JIS X 0201 Katakana

JIS X 0201 Romaji

JIS X 0208 Kanji

JIS X 0212 Supplementary Kanji Set

7 SECURITY

RS80A does not support any specific security measures.

It is assumed that RS80A is used within a secured environment. It is assumed that a secured environment includes as minimum:

- a. Firewall or router protections to ensure that only approved external hosts have network access to RS80A.
- b. Firewall or router protections to ensure that RS80A has only network access to approved external hosts and services.
- c. Any communication with external hosts and services outside the locally secured environment use appropriately secure network channels (e.g. such as a Virtual Private Network (VPN).

Other network security procedures such as automated intrusion detection may be appropriate in some environments. Additional security features may be established by the local security policy and are beyond the scope of this conformance statement.

8 ANNEXES

8.1 IOD CONTENTS

8.1.1 Created SOP Instances

Table 8.1-1 specifies the attributes of an Ultrasound Image transmitted by the RS80A storage applications.

8.1-3 specifies the attributes of a Comprehensive Structured Reports transmitted by the RS80A storage applications.

The following tables use a number of abbreviations. The abbreviations used in the "Presence of..." column are:

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

ANAP Attribute Not Always Present

ALWAYS Always Present

EMPTY Attribute is sent without a value

The abbreviations used in the "Source" column:

MWL the attribute value source Modality Worklist

USER the attribute value source is from User input

AUTO the attribute value is generated automatically

MPPS the attribute value is the same as the Modality Performed Procedure Step service

The difficulty value is the same as the Modality Ferformed Frocedure step serv

CONFIG the attribute value source is a configurable parameter

NOTE: All dates and times are encoded in the local configured calendar and time. Date, Time and Time zones are configured using the Setup Menu.

8.1.1.1 US or US Multiframe Image IOD

Table 8.1-1
IOD OF CREATED US OR US MULTIFRAME SOP INSTANCES

IE	Module	Reference	Presence of Module
Patient	Patient	Table 8.1-4	ALWAYS
Study	General Study	Table 8.1-5	ALWAYS

	Patient Study	Table 8.1-6	ALWAYS
Series	General Series	Table 8.1-7	ALWAYS
Equipment	General Equipment	Table 8.1-8	ALWAYS
	General Image	Table 8.1-9	ALWAYS
	Image Pixel	Table 8.1-10	ALWAYS
	Cine	Table 8.1-11	Only if US Multiframe
Image	Multi-Frame	Table 8.1-12	Only if US Multiframe
Image	US Region Calibration	Table 8.1-13	ANAP
	US Image	Table 8.1-14	ALWAYS
	VOI LUT	Table 8.1-15	ALWAYS
	SOP Common	Table 8.1-17	ALWAYS

8.1.1.1.1 Additional Module

Table 8.1-2
ADDITIONAL MODULES

Module	Reference	Presence of Module
Image Plane	Table 8.1-16	ANAP

8.1.1.2 Comprehensive Structured Report IOD

Table 8.1-3
IOD OF CREATED COMPREHENSIVE STRUCTURED REPORT SOP INSTANCES

IE	Module	Reference	Presence of Module
Patient	Patient	Table 8.1-4	ALWAYS
Study	General Study	Table 8.1-5	ALWAYS
Study	Patient Study	Table 8.1-6	ALWAYS
Series	SR Document Series	Table 8.1-18	ALWAYS
Equipment	General Equipment	Table 8.1-8	ALWAYS
	SR Document General	Table 8.1-19	ALWAYS
Document	SR Document Content	Table 8.1-20	ALWAYS
	SOP Common	Table 8.1-21	ALWAYS

8.1.1.3 Common Modules

Table 8.1-4
PATIENT MODULE OF CREATED SOP INSTANCES

TATIENT MODULE OF OREATED OF INGIANCES					
Attribute Name	Tag	VR	Value	Presence of Value	Source
Patient's Name	0010,0010	PN	From MWL or User Input. Values supplied via Modality Worklist will be entered as received. Values supplied via user input will contain first 3 components (Last^First^Middle). Maximum 64 characters.	VNAP	MWL/U SER
Patient ID	0010,0020	LO	From MWL, user input or generated by device. Maximum 64 characters.	ALWAYS	MWL/U SER/A UTO
Patient's Birth Date	0010,0030	DA	From MWL or user input	VNAP	MWL/U SER
Patient's Sex	0010,0040	cs	From MWL or user input	VNAP	MWL/U SER

Table 8.1-5
GENERAL STUDY MODULE OF CREATED SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Study Instance	0020,000D	UI	From MWL or generated by device	ALWAYS	MWL/A
UID	-		,		UTO
Study Date	0008,0020	DA	<yyyymmdd></yyyymmdd>	ALWAYS	AUTO
Study Time	0008,0030	TM	<hhmmss></hhmmss>	ALWAYS	AUTO
Referring Physician's Name	0008,0090	PN	From MWL or user input	VNAP	MWL/U SER
Study ID	0020,0010	SH	From Requested Procedure UID or System generate : Study Date + Study Time	ALWAYS	AUTO

			<yyyymmddhhmmss></yyyymmddhhmmss>		
Accession	0008,0050	SH	From MWL or user input	VNAP	MWL/U
Number	·		·		SER
			From MWL (Scheduled procedure		
Ctudy			step description, Requested		MWL/U
Study	0008,1030	LO	procedure description or Code	ANAP	
Description			Meaning of Scheduled procedure		SER
			step) or user input		
Referenced					
Study	0008,1110	SQ	From MWL	ANAP	MWL
Sequence					
> Referenced	0000 1150		Eve es MAA/I	ANIAD	N 43 A / I
SOP Class UID	0008,1150	UI	From MWL	ANAP	MWL
> Referenced					
SOP Instance	0008,1155	UI	From MWL	ANAP	MWL
UID					
Procedure Code	0009 1032	20	From MAA/I	ANAD	MWI
Sequence	0008,1032	SQ	From MWL	ANAP	IVIVVL

Table 8.1-6
PATIENT STUDY MODULE OF CREATED SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Patient's Size	0010,1020	DS	From MWL or user input	ANAP	MWL/U SER
					MWL/U
Patient's Weight 0010,1030	0010,1030	DS	From MWL or user input	ANAP	SER

Table 8.1-7
GENERAL SERIES MODULE OF CREATED SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Modality	0008,0060	CS	US	ALWAYS	AUTO

Series Instance	0020,000E	UI	Generated by device	ALWAYS	AUTO
Series Number	0020,0011	IS	Generated by device, increments from "1" in each study	ALWAYS	AUTO
Series Date	0008,0021	DA	<yyyymmdd></yyyymmdd>	ALWAYS	AUTO
Series Time	0008,0031	TM	<hhmmss></hhmmss>	ALWAYS	AUTO
Operators'	0008,1070	PN	From user input	ANAP	USER
Referenced Performed Procedure Step Sequence	0008,1111	SQ	Identifies the MPPS SOP Instance to which this image is related	ALWAYS	MPPS
> Referenced SOP Class UID	0008,1150	UI	MPPS SOP Class UID "1.2.840.10008.3.1.2.3.3"	ALWAYS	MPPS
> Referenced SOP Instance UID	0008,1155	UI	MPPS SOP Instance UID	ALWAYS	MPPS
Request Attributes Sequence	0040,0275	SQ	Zero or 1 item will be present	ANAP	AUTO
> Requested Procedure ID	0040,1001	SH	From MWL	ANAP	MWL
> Scheduled Procedure Step ID	0040,0009	SH	From MWL	ANAP	MWL
> Scheduled Procedure Step Description	0040,0007	LO	From MWL	ANAP	MWL
> Scheduled Protocol Code Sequence	0040.0008	SQ	From MWL	ANAP	MWL
Performed Procedure Step ID	0040,0253	SH	Same as MPPS	ALWAYS	MPPS
Performed	0040,0244	DA	Same as Study Date	ALWAYS	AUTO

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Procedure Step					
Start Date					
Performed					
Procedure Step	0040,0245	TM	Same as Study Time	ALWAYS	AUTO
Start Time					
Performed					MWL/US
Procedure Step	0040,0254	LO	Same as Study Description	ANAP	
Description					ER

Table 8.1-8
GENERAL EQUIPMENT MODULE OF CREATED SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Manufacturer	0008,0070	LO	"SAMSUNG MEDISON CO., LTD."	ALWAYS	AUTO
Institution Name	0008,0080	LO	From user input	ANAP	CONFIG
Station Name	0008,1010	SH	From user input	ANAP	CONFIG
Manufacturer's Model Name	0008,1090	LO	"RS80A"	ALWAYS	AUTO
Device Serial Number	0018,1000	LO	Generated by device	ALWAYS	AUTO
Software Versions	0018,1020	LO	Generated by device	ALWAYS	AUTO

8.1.1.4 US or US Multiframe Image Module

Table 8.1-9
GENERAL IMAGE MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Instance	0020 0013	IS	Generated by device, increments	ALWAYS	AUTO
Number	0020,0013	from "1" in each series	ALWATO	7010	
Patient	0020,0020	CS	NULL		
Orientation	0020,0020	CS	NOLL		
Content Date	0008,0023	DA	<yyyymmdd></yyyymmdd>	ALWAYS	AUTO
Content Time	0008,0033	TM	<hhmmss></hhmmss>	ALWAYS	AUTO

Image Type	0008,0008	cs	"ORIGINAL" and "PRIMARY"	ALWAYS	AUTO
Acquisition Date	0008,0022	DA	<yyyymmdd></yyyymmdd>	ALWAYS	AUTO
Acquisition Time	0008,0032	ТМ	<hhmmss></hhmmss>	ALWAYS	AUTO
Acquisition DateTime	0008,002A	DT	<yyyymmddhhmmss></yyyymmddhhmmss>	ALWAYS	AUTO
Lossy Image Compression	0028,2110	CS	US = "00" (uncompressed) or "01" (lossy compressed) US-MF = "01" (lossy compressed)	ALWAYS	AUTO
Lossy Image Compression Ratio	0028,2112	DS	Used if (0028, 2110) = "01", Calculated by device	ANAP	AUTO
Lossy Image Compression Method	0028,2114	cs	"ISO_10918_1", used if (0028,2110) = "01"	ANAP	AUTO

Table 8.1-10
IMAGE PIXEL MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Samples per	0028,0002	US	"3" for RGB or YBR_FULL_422	ALWAYS	AUTO
Pixel			"1" for MONOCHROME2		
Photometric			Uncompressed = "RGB" or		
	0028,0004	CS	"MONOCHROME2"	ALWAYS	AUTO
Interpretation			Compressed = "YBR_FULL_422"		
Rows	0028,0010	US	US = "872", US-MF = "480"	ALWAYS	AUTO
Columns	0028,0011	US	US = "1280", US-MF = "640"	ALWAYS	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	0000 0400	110	"0"	A1.\A\A\C	ALITO
Representation	0028,0103	US	U	ALWAYS	AUTO
Pixel Data	7FE0,0010	OW	Congrated by device	ALWAYS	AUTO
r ixei Dala	71760,0010	or	Generated by device	ALWAIS	AUTO

		ОВ			
Planar Configuration	0028,0006	US	"0"	ALWAYS	AUTO
Private Creator	7FE1,0010	LO	"MEDISON_US"	ANAP	AUTO
3D Volume	7FE1,1002	ОВ	3D Volume Data	ANAP	AUTO

Table 8.1-11
CINE MODULE OF CREATED US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Frame Time	0018,1063	DS	Milliseconds	ANAP	AUTO
Cine Rate	0018,0040	IS	Frames per second	ANAP	AUTO

Table 8.1-12
MULTI-FRAME MODULE OF CREATED US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Number of	0028,0008	IS	Numbers of Frames	ANAP	AUTO
Frames	0028,0008		Numbers of Frances	, u v, u	A010
Frame					
Increment	0028,0009	AT	"1577059" : (0018, 1063)	ANAP	AUTO
Pointer					

Table 8.1-13
US REGION CALIBRATION MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Sequence of Ultrasound Regions	0018,6011	SQ	Generated by device. A sequence is present for each region in the system display.	ANAP	AUTO
> Region Location Min x0	0018,6018	UL	Left position of region	ALWAYS	AUTO
> Region	0018,601A	UL	Top position of region	ALWAYS	AUTO

Location Min y0					
> Region Location Max x1	0018,601C	UL	Right position of region	ALWAYS	AUTO
> Region Location Max y1	0018,601E	UL	Bottom position of region	ALWAYS	AUTO
> Physical Units X Direction	0018,6024	US	2D Image : 0003H = cm M-Mode : 0004H = seconds Doppler : 0004H = seconds	ALWAYS	AUTO
> Physical Units Y Direction	0018,6026	US	2D Image : 0003H = cm M-Mode : 0003H = cm Doppler : 0005H = hertz or 0007H = cm/sec	ALWAYS	AUTO
> Physical Delta	0018,602C	FD	The physical value per pixel increment	ALWAYS	AUTO
> Physical Delta Y	0018,602E	FD	The physical value per pixel increment	ALWAYS	AUTO
> Region Spatial Format	0018,6012	US	2D Tissue : 0001H M-Mode Tissue or flow : 0002H Spectral (CW or PW Doppler) : 0003H	ALWAYS	AUTO
> Region Data Type	0018,6014	US	Tissue: 0001H Color Flow: 0002H PW Spectral Doppler: 0003H CW Spectral Doppler: 0004H	ALWAYS	AUTO
> Region Flags	0018,6016	UL	See DICOM PS 3.3 C.8.5.5.1.3	ALWAYS	AUTO

Table 8.1-14
US IMAGE MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Samples Per	0028,0002	SU	"3" for RGB or YBR_FULL_422	ALWAYS	AUTO
Pixel			"1" for MONOCHROME2		

Photometric Interpretation	0028,0004	cs	Uncompressed = "RGB" or "MONOCHROME2" Compressed = "YBR_FULL_422"	ALWAYS	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
Planar Configuration	0028,0006	US	"0"	ALWAYS	AUTO
Pixel Representation	0028,0103	US	"0"	ALWAYS	AUTO
Image Type	0008,0008	CS	"ORIGINAL" and "PRIMARY"	ALWAYS	AUTO
Lossy Image Compression	0028,2110	CS	US = "00" (uncompressed) or "01" (lossy compressed) US-MF = "01" (lossy compressed)	ALWAYS	AUTO

Table 8.1-15
VOI LUT MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Window Center	0028,1050	DS	default : "128"	ALWAYS	CONFIG
Window Width	0028,1051	DS	default : "256"	ALWAYS	CONFIG

Table 8.1-16
IMAGE PLANE MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source									
			In case that All following conditions are											
			satisfied, This attribute is inserted.											
	Pixel				DS	DS	User shall select the option							
Pixel		30 DS	DS	DS			28,0030 DS	DS	DS	DC	DC	DC	activating Pixel Spacing at the	ANAP
Spacing	0020,0030									DICOM Setup.	ANAF	AUTO		
			Image shall have regions consisting					2. Image shall have regions consisting						
		of only tissue and color												
			3. For all regions, Units for X and Y											

direction shall be "cm"
4. For all regions, Delta X of US
Region calibration module shall have
the same value.
5. For all regions, Delta Y of US
Region calibration module shall have
the same value.

Table 8.1-17
SOP COMMON MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
SOP Class UID	0008,0016	UI	US = "1.2.840.10008.5.1.4.1.1.6.1" US-MF = "1.2.840.10008.5.1.4.1.1.3.1"	ALWAYS	AUTO
SOP Instance	0008,0018	UI	Generated by device	ALWAYS	AUTO
Specific Character Set	0008,0005	CS	Ref. Section 6 SUPPORT OF CHARACTER SETS	ALWAYS	AUTO

8.1.1.5 Comprehensive Structured Report Modules

Table 8.1-18

SR DOCUMENT SERIES MODULE OF CREATED COMPREHENSIVE SR SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Modality	0008,0060	CS	SR	ALWAYS	AUTO
Series Instance UID	0020,000E	UI	Generated by device	ALWAYS	AUTO
Series Number	0020,0011	IS	"2"	ALWAYS	AUTO
Referenced Performed Procedure Step Sequence	0008,1111	SQ	Identifies the MPPS SOP Instance to which this image is related	ALWAYS	MPPS

> Referenced SOP Class UID	0008,1150	UI	MPPS SOP Class UID "1.2.840.10008.3.1.2.3.3"	ALWAYS	MPPS
> Referenced					
SOP Instance	0008,1155	UI	MPPS SOP Instance UID	ALWAYS	MPPS
UID					

Table 8.1-19
SR DOCUMENT GENERAL MODULE OF CREATED COMPREHENSIVE SR SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Instance Number	0020,0013	IS	Generated by device, increments from "1" in each series	ALWAYS	AUTO
Completion Flag	0040,A491	CS	"PARTIAL"	ALWAYS	AUTO
Verification Flag	0040,A493	CS	"UNVERIFIED"	ALWAYS	AUTO
Content Date	0008,0023	DA	<yyyymmdd></yyyymmdd>	ALWAYS	AUTO
Content Time	0008,0033	TM	<hhmmss></hhmmss>	ALWAYS	AUTO
Referenced Request Sequence	0040,A370	SQ	1 item will be present	ALWAYS	AUTO
> Study Instance UID	0020,000D	UI	From MWL or generated by device	ALWAYS	MWL/AUTO
> Referenced Study Sequence	0008,1110	SQ	From MWL	ANAP	MWL
>> Referenced SOP Class UID	0008,1150	UI	From MWL	ANAP	MWL
>> Referenced SOP Instance UID	0008,1155	UI	From MWL	ANAP	MWL
> Accession Number	0008,0050	SH	From MWL or user input	VNAP	MWL/USER
> Placer Order Number/Imaging Service Request	0040,2016	LO	NULL	VNAP	AUTO

> Filler Order					
Number/Imaging	0040,2017	LO	NULL	VNAP	AUTO
Service Request					
> Requested	0040,1001	SH	From MWL	VNAP	MWL
Procedure ID	0040,1001	311	T TOTT WIVVE	VINAL	IVIVVL
> Requested					
Procedure	0032,1060	LO	From MWL	VNAP	MWL
Description					
> Requested					
Procedure Code	0032,1064	SQ	From MWL	VNAP	MWL
Sequence					
Performed					
Procedure Code	0040,A372	SQ	NULL	VNAP	AUTO
Sequence					

Table 8.1-20
SR DOCUMENT CONTENT MODULE OF CREATED COMPREHENSIVE SR SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Value Type	0040,A040	cs	"CONTAINER"	ALWAYS	AUTO
Concept Name	0040,A043	SQ	1 item will be present	ALWAYS	AUTO
Code Sequence	0010,71010	00	r tem wiii se precent	71277710	7.010
			"EV(125000, DCM, "OB-GYN		
			Ultrasound Procedure Report")		
			for OB-GYN		
> Include 'Code Sequence Macro'			"EV(125100, DCM, "Vascular Ultrasound Procedure Report") for Vascular	ALWAYS	AUTO
			"EV(125200, DCM, "Adult		
			Echocardiography Procedure		
			Report") for Adult		
			Echocardiography		
Include 'Container	Macro'			ALWAYS	AUTO

Content Sequence	0040,A730	SQ	One or more items may be included in this sequence	ALWAYS	AUTO
> Relationship	0040,A010	cs	Ref. Section 9 STRUCTURED	ALWAYS	AUTO
Туре	0040,A010		REPORT TEMPLATES		
> Include Document			Ref. Section 9 STRUCTURED	ALWAYS	AUTO
Relationship Macro			REPORT TEMPLATES	ALWATS	
> Include Document Content		Ref. Section 9 STRUCTURED	ALWAYS	AUTO	
Macro			REPORT TEMPLATES	ALWATS	AUTO

Table 8.1-21
SOP COMMON MODULE OF CREATED COMPREHENSIVE SR SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
SOP Class	0008,0016	UI	"1.2.840.10008.5.1.4.1.1.88.33"	ALWAYS	AUTO
UID	0000,0010	Oi	1.2.040.10000.3.1.4.1.1.00.33	ALWATS	AUTO
SOP Instance	0008,0018 L	UI	Generated by device	ALWAYS	AUTO
UID					
Specific	0008,0005 C	CS	Ref. Section 6 SUPPORT OF	ALWAYS	AUTO
Character Set			CHARACTER SETS		

8.1.2 Used Fields in received IOD by application

The RS80A storage application does not receive SOP Instances. The usage of attributes received via Modality Worklist is described in section 4.2.2.3.1.3.

8.1.3 Attribute mapping

The relationships between attributes received via Modality Worklist, stored in acquired images and communicated via MPPS are summarized in the Table below. The format and conversions used in Table are the same as the corresponding table in IHE Technical Framework, Rev. 7.0 May 15, 2006, vol. II, Appendix A.

Table 8.1-22
ATTRIBUTE MAPPING BETWEEN MODALITY WORKLIST, IMAGE AND MPPS

Modality Worklist	Image IOD	MPPS IOD		
Patient's Name	Patient's Name	Patient's Name		
Patient ID	Patient ID	Patient ID		
Patient's Birth Date	Patient's Birth Date	Patient's Birth Date		
Patient's Sex	Patient's Sex	Patient's Sex		
Patient's Size	Patient's Size			
Patient's Weight	Patient's Weight			
Referring Physician's Name	Referring Physician's Name			
		Scheduled Step Attributes Sequence		
Study Instance UID	Study Instance UID	> Study Instance UID		
Referenced Study Sequence	Referenced Study Sequence	> Referenced Study Sequence		
Accession Number	Accession Number	> Accession Number		
	Request Attributes Sequence			
Requested Procedure ID	> Requested Procedure ID	> Requested Procedure ID		
Requested Procedure Description		> Requested Procedure Description		
Scheduled Procedure Step ID	> Scheduled Procedure Step ID	> Scheduled Procedure Step ID		
Scheduled Procedure Step	> Scheduled Procedure Step	> Scheduled Procedure Step Description		
Description	Description	> Scrieduled Procedure Step Description		
Scheduled Protocol Code	> Scheduled Protocol Code	> Scheduled Protocol Code Sequence		
Sequence	Sequence	- Coneduct i Totocol Code Sequence		
Requested Procedure ID	Study ID	Study ID		
	Performed Procedure Step ID	Performed Procedure Step ID		
	Performed Procedure Step Start			
	Date	Performed Procedure Step Start Date		
	Performed Procedure Step Start			
	Time	Performed Procedure Step Start Time		
	Performed Procedure Step			
	Description	Performed Procedure Step Description		
		Performed Series Sequence		
Requested Procedure Code Sequence	Procedure Code Sequence	Procedure Code Sequence		
	Referenced Performed Procedure			
	Step Sequence			
	> Referenced SOP Class UID	SOP Class UID		
	> Referenced SOP Instance UID	SOP Instance UID		

8.1.4 Coerced/Modified Fields

The Modality Worklist AE will truncate attribute values received in the response to a Modality Worklist Query if the value length is longer than the maximum length permitted by the attribute's VR.

8.2 DATA DICTIONARY OF PRIVATE ATTRIBUTES

The Private Attributes added to create SOP Instances are listed in the Table below. RS80A reserves blocks of private attributes in groups 7FE1. Further details on usage of these private attributes are contained in Section 8.1

Table 8.2-1
DATA DICTIONALY OF PRIVATE ATTRIBUTES

Tag	Attribute Name	VR	VM
(7FE1, 0010)	Private Creator	LO	1
(7FE1, 1002)	3D Volume	ОВ	1

8.3 CODED TERMINOLOGY AND TEMPLATES

The Workflow AE is capable of supporting arbitrary coding schemes for Procedure and Protocol Codes. The contents of Requested Procedure Code Sequence (0032, 1064) and Scheduled Protocol Code Sequence (0040, 0008) supplied in Worklist Items will be mapped to Image IOD and MPPS attributes as described in Section 8.1.3

8.4 STANDARD EXTENDED / SPECIALIZED / PRIVATE SOP CLASSES

No Specialized or Private SOP Classes are supported.

8.4.1 US OR US MULTIFRAME IMAGE STORAGE SOP CLASS

The US or US Multiframe Image Storage SOP Classes are extended to create a Standard Extended SOP Class by addition of standard and private attributes to the created SOP Instances as documented in section 8.1

3D Volume Data is transferred to the configured Storage Server, if "Send 3D Volume" option is enabled in the Setup Dialog.

8.5 PRIVATE TRANSFER SYNTAXES

No Private Transfer Syntaxes are supported.

9 STRUCTURED REPORT TEMPLATES

This Section uses the following forms for describing Structured Report Templates used in RS80A.

	Rel with Parent	VT	Concept Name	Presence of Value	Comments
1					
2					

	NL	REL	VT	Concept Name	Unit / CODE Value	Ref TID	Ref CID	Comments or Label
A-1								
A-2								

Rel with Parent Relationship
VT Value Type

Concept Name Any constraints on Concept Name are specified in this filed as defined or enumerated

coded entries, or as baseline or defined context groups.

Presence of Value Ref. Section 8.1.1

Comments Description about Reference section or used values.

Label Name which is indicated in the system

NL The nesting level of Content Items is denoted by ">" symbols

REL Relationship

Unit/Code, Value Applied unit, enumerated coded entries, or the reference of Context Group.

Ref TID Referenced Template ID Number

Ref CID Referenced Context ID Number. The left side of "/" shows a CID value applied in

"Concept Name" column and the right side shows a CID value applied in "Unit/Code,

Value" column. (e.g. 228/12012)

9.1 OB-GYN STRUCTURED REPORT TEMPLATE

9.1.1 OB-GYN Ultrasound Report Templates(TID 5000)

Table 9.1-1
OB-GYN ULTRASOUND PROCEDURE REPORT TEMPLATE

			KASOOND PROCEDURE REPORT		
	Rel with Parent	VT	Concept Name	Presence of	Comments
	Nor with a drone	٧.	Someopt Nume	Value	Comments
1		CONTAINER	EV (125000, DCM, "OB-GYN Ultrasound	ALWAYS	
ı		CONTAINER	Procedure Report")	ALWATS	
2	HAS CONCEPT	INCLUDE	DTID (1204) Language of Content Item		
	MOD	INOLOBE	and Descendants		
3	HAS OBS	INCLUDE	DTID (1001) Observation Context	ANAP	Ref. Section 9.1.1.1
	CONTEXT				
4	CONTAINS	INCLUDE	DTID (5001) Patient Characteristics	ANAP	Ref. Section 9.1.1.2
5	CONTAINS	CONTAINER	DT (111028, DCM, "Image Library")		
6	CONTAINS	IMAGE	No Purpose of reference		
7	CONTAINS	INCLUDE	DTID (5002) OB-GYN Procedure	ANAP	Ref. Section 9.1.1.3
,	CONTAINS	INCLUDE	Summary Section	ANAP	iver. Section 9.1.1.5
8	CONTAINS	INCLUDE	DTID (5004) Fetal Biometry Ratio Section	ANAP	Ref. Section 9.1.1.4
9	CONTAINS	INCLUDE	DTID (5005) Fetal Biometry Section	ANAP	Ref. Section 9.1.1.5
10	CONTAINS	INCLUDE	DTID (5006) Long Bones Section	ANAP	Ref. Section 9.1.1.6
11	CONTAINS	INCLUDE	DTID (5007) Fetal Cranium Section	ANAP	Ref. Section 9.1.1.7
12	CONTAINS	INCLUDE	DTID (5009) Fetal Biophysical Profile	ANAP	Ref. Section 9.1.1.8
40	00174110	NO UDE	Section Sectio	4445	D (0); 0 (1)
13	CONTAINS	INCLUDE	DTID (5011) Early Gestation Section	ANAP	Ref. Section 9.1.1.9
14	CONTAINS	INCLUDE	DTID (5010) Amniotic Sac Section	ANAP	Ref. Section 9.1.1.10
15	CONTAINS	INCLUDE	DTID (5015) Pelvis and Uterus Section	ANAP	Ref. Section 9.1.1.11
16	CONTAINS	INCLUDE	DTID (5012) Ovaries Section	ANAP	Ref. Section 9.1.1.12
17	CONTAINS	INCLUDE	DTID (5013) Follicles Section	ANAP	Ref. Section 9.1.1.13
18	CONTAINS	INCLUDE	DTID (5013) Follicles Section	ANAP	Ref. Section 9.1.1.14
19	CONTAINS	CONTAINER	EV (121070, DCM, "Findings")	ANAP	
20	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, "Finding Site")	ANAP	
21	CONTAINS	INCLUDE	DTID (5025) OB-GYN Fetal Vascular Measurement Group	ANAP	Ref. Section 9.1.1.15

22	CONTAINS	CONTAINER	EV (121070, DCM, "Findings")	ANAP		
22	HAS CONCEPT	CODE	EV/C COE2 CDT "Finding Cito")	ANAD		
23	MOD	CODE	EV (G-C0E3, SRT, "Finding Site")	ANAP		
24	CONTAINS	INCLUDE	DTID (5026) OB-GYN Pelvic Vascular	ANAD	Def Coetion 0.1.1.16	
24	24 CONTAINS	INCLUDE Measurement Group		ANAP	Ref. Section 9.1.1.16	

9.1.1.1 Observation ConText (TID 1001)

Table 9.1-2
OBSERVATION CONTEXT IN OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
A-1	HAS OBS CONTEXT	CODE	(121005, DCM, "Observer	(121006, DCM,	
A-1	HAS OBS CONTEXT	CODE	Type")	"Person")	
A-2	HAS OBS CONTEXT	PNAME	(121008, DCM, "Person		Ref. Physician
A-2	TIAS OBS CONTEXT	INAME	Observer Name")		iver. i flysician
A-3	HAS OBS CONTEXT	CODE	(121024, DCM, "Subject Class")	(121025 ,DCM,"Patient")	
A-4	HAS OBS CONTEXT	PNAME	(121020 DCM "Subject Name")		Last Name,First
A-4	HAS OBS CONTEXT	PNAME (121029,DCM, "Subject Name")			Name
A-5	HAS OBS CONTEXT	DATE	(121031,DCM, "Subject Birth		BirthDate
Α-3	TIAO OBO GONTEXT	DAIL	Date")		Birtribate
				(M, DCM, "Male")	Gender
A-6	HAS OBS CONTEXT	CODE	(121032,DCM, "Subject Sex")	(F, DCM, "Female") (U,	
				DCM, "Unknown sex")	
A-7	HAS OBS CONTEXT	NUM	(121033,DCM, "Subject Age")	(mo, UCUM, "month")	Not Used

9.1.1.2 Patient Characteristics (TID 5001)

Table 9.1-3
PATIENT CHARACTERISTICS IN OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	
A-8	CONTAINS	CONTAINS	CONTAINTER	(121118,DCM "Patient		
A-0	CONTAINS	CONTAINTER	Characteristics")			
A-8-1	CONTAINS	TEXT	(121106,DCM, "Comment")		Description	
A-8-2	CONTAINS	NUM	(8302-2, LN, "Patient Height")	(cm, UCUM, "centimeter")	Height	

				(mm, UCUM, "millimeter")	
A-8-3	CONTAINS	NUM	(29463-7, LN, "Patient Weight")	(kg, UCUM, "kilograms")	Weight
A-8-4	CONTAINS	NUM	(11996-6, LN "Gravida")	(1, UCUM, "no units")	Gravida
A-8-5	CONTAINS	NUM	(11977-6, LN, "Para")	(1, UCUM, "no units")	Para
A-8-6	CONTAINS	NUM	(11612-9, LN, "Aborta")	(1, UCUM, "no units")	Aborta
A-8-7	CONTAINS	NUM	(33065-4, LN, "Ectopic	(1, UCUM, "no units")	Ectopic
			Pregnancies")		-

9.1.1.3 OB-GYN Summary Section (TID 5002)

Table 9.1-4
OB-GYN Procedure Summary Section

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comments
A-10	CONTAINS	CONTAINER	(121111, DCM, "Summary")			
A-10-1	CONTAINS	DATE	Context ID 12003 Extended OB-GYN Dates	yyyymmdd	Estab.DueDat	Ref. Table 9.1-18
A-10-2	CONTAINS	NUM	(11878-6, LN, "Number of	(1, UCUM,		
A-10-2	CONTAINS	NOW	Fetuses")	"no units")		
A-10-3	CONTAINS	TEXT	(12186, DCM, "Comment")		Comment	
A-10-4	CONTAINS	CONTAINER	(125008, DCM, "Fetus			
A-10-4	CONTAINS	CONTAINER	Summary")			
A-10-4-1	HAS OBS CONTEXT	TEXT	(11951-1, LN, "Fetus ID")			Will be present if more than one fetus.
A-10-4-2	CONTAINS	NUM	(11878-6, LN, "Number of Fetuses")		Gestations	
			(18185-9, LN, "Gestational		AUA	
A-10-4-3	CONTAINS	S NUM	Age")		7.57	
7, 10 4 0	CONTAINS		(11885-1, LN, "Gestational Age		GA(LMP)	
			by LMP")			

A-10-4-4	CONTAINS	NUM	(11727-5, LN, "Estimated Weight")	(kg, UCUM, "kg")	EFW	
A-10-4-4-1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(Context ID 12014)OB Fetal Body Weight Equations and Tables		
A-10-4-5	CONTAINS	NUM	(11767-1, LN, "EFW percentile rank")	UCUM percentile "percentile"	Pctl.(EFW)	
A-10-4-5-1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(Context ID 12016)Estim ated Fetal Weight Percentile Equations and Tables		
A-10-4-6	CONTAINS	NUM	(11948-7, LN, "Fetal Heart Rate")	(bpm, UCUM "bpm")	Fetal HR	

9.1.1.4 OB-GYN Fetal Biometry Ratio Section (TID 5004)

Table 9.1-5
Fetal Biometry Ratio Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comments
A-11	CONTAINS	CONTAINER	(125001, DCM, "Fetal Biometry Ratios")			
A-11-1	HAS OBS CONTEXT	TEXT	(11951-1, LN, "Fetus ID")			Will be present if more than one fetus.
A-11-2	CONTAINS	NUM	(12004, CID, "Fetal Biometry Ratios")	(1, UCUM, "no units")		

		Context ID		
		12004		
CONTAINS	NUM	Extended Fetal	(%, UCUM,	Ref. Table 9.1-19
CONTAINS	NOW	Biometry	"%")	Rei. Table 9.1-19
		Ratios		
		Measurements		

9.1.1.5 OB-GYN Fetal Biometry Section (TID 5005) Table 9.1-6

Fetal Biometry Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comments
A-12	CONTAINS	CONTAINER	(125002, DCM, "Fetal Biometry")			
A-12-1	HAS OBS CONTEXT	TEXT	(11951-1, LN, "Fetus ID")			Will be present if more than one fetus.
A-12-2	CONTAINS	CONTAINER	(125005, DCM, "Biometry Group")			
A-12-2-1	CONTAINS	NUM	Context ID 12005 Extended Fetal Biometry Measurements	(cm, UCUM, "centimeter") (cm2, UCUM, "Square centimeter")		Ref. Table 9.1-20
A-12-2-1- 1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		
A-12-2-2	CONTAINS	NUM	(18185-9, LN, "Gestational Age")	(d, UCUM, "days")		

A-12-2-2- 1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12013)Gestation al Age Equations and Tables	Ref. Table 9.1-34
A-12-2-3	CONTAINS	NUM	(125012, DCM, "Growth Percentile Rank") (125013, DCM, "Growth Z- score")	(percentile, UCUM, "percentile")	
A-12-2-3- 1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12015)Fetal Growth Equations and Tables	Ref. Table 9.1-36

9.1.1.6 OB-GYN Fetal Long Bones Section (TID 5006) Table 9.1-7

Long Bones Sections in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comments
A-13	CONTAINS	CONTAINER	(125003, DCM, "Fetal Long Bones")			
A-13-1	HAS OBS CONTEXT	TEXT	(11951-1, LN,"FetusID")			Will be present if more than one fetus.
A-13-2	CONTAINS	CONTAINER	(125005, DCM, "Biometry Group")			

A-13-2-1	CONTAINS	NUM	Context ID 12006 Extended Fetal Long Bones Biometry Measurements	(cm, UCUM, "centimeter")	Ref. Table 9.1-21
A-13-2-1-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID-Derivation	
A-13-2-2	CONTAINS	NUM	(18185-9, LN, "Gestational Age")	(d, UCUM, "day")	
A-13-2-2-1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12013)Gestational Age Equations and Tables	Ref. Table 9.1-34
A-13-2-3	CONTAINS	NUM	(125012, DCM, "Growth Percentile Rank")	(percentile, UCUM, "percentile")	
A-13-2-3-1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12015)Fetal Growth Equations and Tables	Ref. Table 9.1-36

9.1.1.7 OB-GYN Fetal Cranium Section (TID 5007)

Table 9.1-8

Fetal Cranium Sections in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	Label	Comments
A-14	CONTAINS	CONTAINER	(125004, DCM, "Fetal Cranium")			

A-14-1 A-14-2	HAS OBS CONTEXT CONTAINS	TEXT	(11951-1, LN, "FetusID") (125005, DCM,		Will be present if more than one fetus.
			"Biometry Group")		
A-14-2-1	CONTAINS	NUM	Context ID 12007 Extended Fetal Cranium	(cm, UCUM, "centimeter") (cm2, UCUM, "Square centimeter")	Ref. Table 9.1-22
A-14-2-1-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation	
A-14-2-2	CONTAINS	NUM	(18185-9, LN, "Gestational Age")	(d, UCUM, "day")	
A-14-2-2-1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12013)Gestational Age Equations and Tables	Ref. Table 9.1-34
	CONTAINS	NUM	(125012, DCM, "Growth Percentile Rank")	(percentile, UCUM, "percentile")	
A-14-2-3	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12015)Fetal Growth Equations and Tables	Ref. Table 9.1-36

9.1.1.8 OB-GYN Early Gestation Section (TID 5011) Table 9.1-9 Early Gestation Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	Label	Comments
A-15	CONTAINS	CONTAINER	(125009, DCM, "Early Gestation")			
A-15-1	HAS OBS CONTEXT	TEXT	(11951-1, LN, "Fetus ID")			Will be present if more than one fetus.
A-15-2	CONTAINS	CONTAINER	(125005, DCM, "Biometry Group")			
A-15-2-1	CONTAINS	NUM	Context ID 12009 Extended Early Gestation Biometry Measurements	(cm, UCUM, "centimeter") (cm2, UCUM, "Square centimeter")		Ref. Table 9.1-24
A-15-2-1-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		
A-14-2-2	CONTAINS	NUM	(18185-9, LN Gestational Age	(d, UCUM, "day")		
A-14-2-2-1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12013)Gestational Age Equations and Tables		Ref. Table 9.1-34
	CONTAINS	NUM	(125012, DCM, "Growth Percentile Rank")	(percentile, UCUM, "percentile")		
A-14-2-3	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12015)Fetal Growth Equations and Tables		Ref. Table 9.1-36

9.1.1.9 OB-GYN Fetal Biophysical Profile Section (TID 5009) Table 9.1-10

Fetal Biophysical Profile Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comments
A-16	CONTAINS	CONTAINER	(125006, DCM, "Biophysical Profile")			
A-16-1	HAS OBS CONTEXT	TEXT	(11951-1, LN, "Fetus ID")			Will be present if more than one fetus.
			(11631-9, LN, "Gross Body Movement")		Fetal Movements	value as entered in the Report.
			(11632-7, LN, "Fetal Breathing")	({0:2}, UCUM, "range 0:2")	Fetal Breathing Movements	value as entered in the Report.
			(11635-0, LN, "Fetal Tone")		Fetal Tone	value as entered in the Report.
A-16-2	CONTAINS	AINS NUM	(11635-5, LN, "Fetal Heart Reactivity")		Nonstress Test	value as entered in the Report.
			(11630-1, LN, "Amniotic Fluid Volume")		Amniotic Fluid Volume	value as entered in the Report.
			(11634-3, LN, "Biophysical Profile Sum Score")	(1, UCUM, "no units")	Total	Automatically calculates the sum of the scores.

9.1.1.10 OB-GYN Amniotic Sac Section (TID 5010)

Table 9.1-11

Amniotic Sac Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comments
A-17	CONTAINS	CONTAINER	(121070, DCM,		AFI	
A-17-1	HAS CONCEPT MOD	CODE	"Findings") (G-C0E3, SRT, "Finding Site")	(T-F1300, SRT, "Amniotic Sac")		
			(11627-7, LN, "Amniotic Fluid Index")	(cm, UCUM, "centimeter")	AFI	
A-17-2	CONTAINS	NUM	Context ID 12008 Extended OB- GYN Amniotic Sac			Ref. Table 9.1-23
			(99004-01, MDSN, "MVP")		Max Vertical Pocket	
A-17-2-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		

9.1.1.11 OB-GYN Pelvis and Uterus Section (TID 5015)

Table 9.1-12

Pelvis and Uterus Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comments
			(125011, DCM,			
A-18	CONTAINS	CONTAINER	"Pelvis and			
			Uterus")			

A-18-1	CONTAINS	CONTAINER	(T-83000, SRT, "Uterus")			
			(11865-3, LN, "Uterus Width")	(cm, UCUM, "centimeter")	Uterus W	
A-18-1-1	CONTAINS	NUM	(11842-2, LN, "Uterus Length")		Uterus L	
			(11859-6, LN, "Uterus Height")		Uterus H	
A-18-1-1-	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	(R-002E1, SRT, "Best value")		
A-18-1-2	CONTAINS	NUM	(33192-6, LN, "Uterus Volume")	(cm3, UCUM, "Cubic centimeter")	Uterus Vol.	
A-18-2	CONTAINS	NUM	Context ID 12011 Extended Ultrasound Pelvis and Uterus	(cm, UCUM, "centimeter")		Ref. Table 9.1-25
A-18-2-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		
A-18-3	CONTAINS	NUM	Cervix Volume	(cm3, UCUM, "Cubic centimeter")	Cervix Vol.	

9.1.1.12 OB-GYN Ovaries Section (TID 5012)

Table 9.1-13

Ovaries Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comme nts
A-19	CONTAINS	CONTAINER	(121070, DCM,			
A-19	CONTAINS	CONTAINER	"Findings")			

A-19-1	HAS CONCEPT MOD	CODE	(G-C0E3, SRT, "Finding Site")	(T-87000, SRT, "Ovary")	
A-19-2	CONTAINS	CONTAINER	(T-87000, SRT, "Ovary")		
			(11829-9, LN, "Left Ovary Width")	(cm, UCUM, "centimeter")	Lt. Ovary W
A-19-2-1	CONTAINS	NUM	(11840-6, LN, "Left Ovary Length")		Lt. Ovary L
			(11857-0, LN, "Left Ovary Height")		Lt. Ovary H
A-19-2-1-	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation	
A-19-2-2	CONTAINS	NUM	(12164-0, LN, "Left Ovary Volume")	(cm3, UCUM, "Cubic centimeter")	Lt. Ovary Vol.
A-19-3	CONTAINS	CONTAINER	(T-87000, SRT, "Ovary")		
			(11830-7, LN, "Right Ovary Width")	(cm, UCUM, "centimeter")	Rt. Ovary W
A-19-3-1	CONTAINS	NUM	(11841-4, LN, "Right Ovary Length")		Rt. Ovary L
			(11858-8, LN, "Right Ovary Height")		Rt. Ovary H
A-19-3-1-	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	(R-002E1, SRT, "Best value")	
A-19-3-2	CONTAINS	NUM	(12165-7, LN, "Right Ovary Volume")	(cm3, UCUM, "Cubic centimeter")	Rt. Ovary Vol.

9.1.1.13 OB-GYN Follicles Section (TID 5013)

Table 9.1-14

Left Follicle Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comments
A-20	CONTAINS	CONTAINER	(121070, DCM, "Findings")			
A-20-1	HAS CONCEPT MOD	CODE	(G-C0E3, SRT, "Finding Site")	(T-87600, SRT, "Ovarian Follicle")		
A-20-2	HAS CONCEPT MOD	CODE	(G-C171, SRT, "Laterality")	(G-A101, SRT, "Left")		
A-20-3	CONTAINS	NUM	(11879-4, LN, "Number of follicles in left ovary")	(1, UCUM, "no units")		
A-20-4	CONTAINS	CONTAINER	(125007, DCM, "Measurement Group")			
A-20-4-1	HAS OBS CONTEXT	TEXT	(12510, DCM, "Identifier")		"1", "2" 	
A-20-4-2	CONTAINS	NUM	(GD705, SRT, "Volume")	(cm3, UCUM, "Cubic centimeter")	Vol.	
A-20-4-3	CONTAINS	NUM	(11793-7, LN, "Follicle Diameter")	(cm, UCUM, "centimeter")	"1", "2" 	
A-20-4- 3-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	(R-002E1, SRT, "Best value")		

9.1.1.14 OB-GYN Follicles Section (TID 5013)

Table 9.1-15

Right Follicle Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comments
A-21	CONTAINS	CONTAINER	(121070, DCM, "Findings")			

A-21-1	HAS CONCEPT MOD	CODE	(G-C0E3, SRT, "Finding Site")	(T-87600, SRT, "Ovarian Follicle")		
A-21-2	HAS CONCEPT MOD	CODE	(G-C171, SRT, "Laterality")	(G-A100, SRT, "Right")		
A-21-3	CONTAINS	NUM	(11880-2, LN, "Number of follicles in right ovary")	(1, UCUM, "no units")		
A-21-4	CONTAINS	CONTAINER	(125007, DCM, "Measurement Group")			
A-21-4-1	HAS OBS CONTEXT	TEXT	(12510, DCM, "Identifier")		"1", "2" 	
A-21-4-2	CONTAINS	NUM	(G-D705, SRT, "Volume")	(cm3, UCUM, "Cubic centimeter")	Vol.	
A-21-4-3	CONTAINS	NUM	(11793-7, LN, "Follicle Diameter")	(cm, UCUM, "centimeter")	"1", "2" 	
A-21-4- 3-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		

9.1.1.15 OB-GYN Pelvic Vascular Measurement Group (TID 5026) Table 9.1-16

OB-GYN Fetal Vascular Measurement Group in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE	RS80A	Comments
				Value	Label	
A-22	CONTAINS	CONTAINER	(121070, DCM,			
A-22	CONTAINS	CONTAINER	"Findings")			
				(T-F6800, SRT,		
A 22 1	HAS CONCEPT	CODE	(G-C0E3, SRT,	"Embryonic		
A-22-1	MOD	CODE	"Finding Site")	Vascular		
				Structure")		

A-22-2	CONTAINS	CONTAINER	Context ID 12141 Extended Fetal Vasculature Anatomical Location		Ref. Table 9.1-26
A-22-2-1	HAS OBS CONTEXT	TEXT	(11951-1, LN, "Fetus ID")		Will be present if more than one fetus.
A-22-2-2	HAS CONCEPT MOD	CODE	(G-C171, SRT, "Laterality")	(G-A103 , SRT, "Unilateral")	
A-22-2-3	CONTAINS	NUM	Context ID 12119 Vascular Ultrasound Property		Ref. Table 9.1-28
A-22-2-3-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation	

9.1.1.16 OB-GYN Pelvic Vascular Measurement Group (TID 5026) Table 9.1-17

OB-GYN Pelvic Vascular Measurement Group in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE	RS80A	Comments
	KEL	VI	Concept Name	Value	Label	Comments
A-23	CONTAINS	CONTAINER	(121070, DCM,			
A-23	CONTAINS	CONTAINER	"Findings)			
				(T-D6007,		
A 22 1	HAS CONCEPT	CODE	(G-C0E3. SRT,	SRT, "Pelvic		
A-23-1	MOD	CODE	Finding Site)	Vascular		
				Structure")		
			Context ID 12140			
			Extended Pelvic			
A-23-2	CONTAINS	CONTAINER	Vasculature			Ref. Table 9.1-27
			Anatomical			
			Location			

A-23-2-1	HAS CONCEPT MOD	CODE	(G-C171, SRT, "Laterality")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	
				(G-A102, SRT, "Unilateral")	
A-23-2-2	HAS CONCEPT	TEXT	(112050, DCM, "Anatomic Identifier")	Official)	
	IVIOD		Context ID 12119		
A-23-2-3	CONTAINS	NS NUM	Vascular		Ref. Table 9.1-28
A 23 2 3	CONTAINC	IVOW	Ultrasound Property	_	Tel. Table 3.1 20
A 22 2 2 1	HAS CONCEPT	CODE	(121401, DCM,	Common CID-	
A-23-2-3-1	MOD	CODE	"Derivation")	Derivation	

9.1.2 DCMR Context Groups used in RS80A

9.1.2.1 Standard Extended Context Groups in OB-GYN SR

Table 9.1-18

Context ID 12003 Extended OB-GYN Dates

CSD	CV	СМ	RS80A Label
LN	11778-8	EDD	Estab.DueDate
LN	11779-6	EDD from LMP	EDD(LMP)
LN	11781-2	EDD from average ultrasound age	EDD(AUA)
LN	11955-2	LMP	LMP
LN	11976-8	Ovulation date	Exp.Ovul.

Table 9.1-19
Context ID 12004 Extended Fetal Biometry Ratios Measurements

CSD	cv	СМ	Laterality	RS80A Label
LN	11871-1	FL/AC	N/A	FL/AC
LN	11872-9	FL/BPD	N/A	FL/BPD
LN	11873-7	FL/HC	N/A	FL/HC
LN	11823-2	Cephalic Index	N/A	CI(BPD/OFD)
LN	11947-9	HC/AC	N/A	HC/AC
MDSN	99000-01	FL/FOOT	N/A	FL/FOOT
MDSN	99000-02	ThC/AC	N/A	ThC/AC
MDSN	99000-04	Right Anterior Horn Lateral ventricular to Hemispheric Width Ratio	N/A	Rt. Va/Hem
MDSN	99000-05	Leftt Anterior Horn Lateral ventricular to Hemispheric Width Ratio	N/A	Lt. Va/Hem
MDSN	99000-06	Right Posterior Horn Lateral ventricular to Hemispheric Width Ratio	N/A	Rt. Vp/Hem

MDSN	99000-07	Leftt Posterior Horn		
		Lateral ventricular to	N/A	Lt. Vp/Hem
		Hemispheric Width	IWA	
		Ratio		

Table 9.1-20
Context ID 12005 Extended Fetal Biometry Measurements

CSD	cv	СМ	RS80A Label
LN	11820-8	Biparietal Diameter	BPD
LN	11851-3	Occipital-Frontal Diameter	OFD
LN	11984-2	Head Circumference	HC
LN	11818-2	Anterior-Posterior Abdominal Diameter	APD
LN	11862-0	Tranverse Abdominal Diameter	TAD
LN	11979-2	Abdominal Circumference	AC
LN	11963-6	Femur Length	FL
LN	11819-0	Anterior-Posterior Trunk Diameter	APTD
LN	11864-6	Transverse Thoracic Diameter	TTD
LN	11988-3	Thoracic Circumference	ThC
LN	11965-1	Foot length	Foot
LN	11834-9	Left Kidney length	Lt. Renal L
LN	11825-7	Left Kidney width	Lt. Renal AP
LN	11836-4	Right Kidney length	Rt. Renal L
LN	11827-3	Right Kidney width	Rt. Renal AP
LN	33068-8	Thoracic Area	ThA
MDSN	99001-01	Middle Abdominal Diameter	MAD
MDSN	99001-02	Fetal Trunk Area	FTA
MDSN	99001-03	APTDxTTD	APTDxTTD
MDSN	99001-04	Ear Length	Ear
MDSN	99001-05	Middle Phalanx	MP
MDSN	99001-06	Thoracic Anteriorposterior Diameter	ThD ap
MDSN	99001-07	Thoracic Transverse Diameter	ThD trans
MDSN	99001-08	Heart Anteriorposterior Diameter	HrtD ap
MDSN	99001-09	Heart Transverse Diameter	HrtD trans
MDSN	99001-11	Cardio-Thoracic Area Ratio by Distance	CTAR(D)
MDSN	99001-12	Heart Area	HrtA

MDSN	99001-13	Cardio-Thoracic Area Ratio by Area	CTAR(A)	
		-		

Table 9.1-21
Context ID 12006 Extended Fetal Long Bones Biometry Measurements

CSD	CV	СМ	Laterality	RS80A Label
LN	11966-9	Humerus length	N/A	ним
LN	11969-3	Ulna length	N/A	ULNA
LN	11968-5	Tibia length	N/A	TIB
LN	11967-7	Radius length	N/A	RAD
LN	11964-4	Fibula length	N/A	FIB
LN	11962-8	Clavicle length	N/A	CLAV
MDSN	99002-01	Vertebral	N/A	Vertebral

Table 9.1-22
Context ID 12007 Extended Fetal Cranium

CSD	CV	СМ	Laterality	RS80A Label
LN	11863-8	Trans Cerebellar Diameter	N/A	CEREB
LN	11860-4	Cisterna Magna length	N/A	СМ
LN	12146-7	Nuchal Fold thickness	N/A	NF
LN	33069-6	Nuchal Translucency	N/A	NT
LN	11629-3	Outer Orbital Diameter	N/A	OOD
LN	33070-4	Inner Orbital Diameter	N/A	IOD
LN	12171-5	Lateral Ventrical width	N/A	Lat Vent
LN	12170-7	Width of Hemisphere	N/A	HW
MDSN	99003-01	Nasal Bone	N/A	NB

Table 9.1-23
Context ID 12008 Extended OB-GYN Amniotic Sac

CSD	CV	СМ	RS80A Label
LN	11624-4	First Quadrant Diameter	Q1
LN	11626-9	Second Quadrant Diameter	Q2
LN	11625-1	Third Quadrant Diameter	Q3
LN	11623-6	Fourth Quadrant Diameter	Q4
LN	11627-7	Amniotic Fluid Index	AFI
SRT	M-02550	Diameter	Max Vertical Pocket

MDSN	99004-01	MVP	MVP
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Table 9.1-24
Context ID 12009 Extended Early Gestation Biometry Measurements

CSD	CV	СМ	RS80A Label
LN	11850-5	Gestational Sac Diameter	GS
LN	11957-8	Crown Rump Length	CRL
LN	11816-6	Yolk Sac length	YS
LN	33071-2	Spine Length	SL

Table 9.1-25
Context ID 12011 Extended Ultrasound Pelvis and Uterus

CSD	cv	СМ	RS80A Label
LN	11961-0	Cervix Length	
LN	12145-9	Endometrium Thickness	
MDSN	99005-01	Pelvis	Rt. Pelvis
MDSM	99005-01	Pelvis	Lt. Pelvis
MDSN	99005-02	Cervix Height	Cervix H
MDSN	99005-03	Cervix Width	Cervix W
MDSN	99005-04	Cervix Volume	Cervix Vol.
MDSN	99005-05	Right Cyst Length	Rt. Cyst L
MDSN	99005-06	Right Cyst Height	Rt. Cyst H
MDSN	99005-07	Right Cyst Width	Rt. Cyst W
MDSN	99005-08	Right Cyst Volume	Rt. Cyst Vol.
MDSN	99005-09	Left Cyst Length	Lt. Cyst L
MDSN	99005-10	Left Cyst Height	Lt. Cyst H
MDSN	99005-11	Left Cyst Width	Lt. Cyst W
MDSN	99005-12	Left Cyst Volume	Lt. Cyst Vol.
MDSN	99005-13	Right Pelvis	Rt. Pelvis
MDSN	99005-14	Left Pelvis	Lt. Pelvis

Table 9.1-26
Context ID 12141 Extended Fetal Vasculature Anatomical Location

CSD	CV	СМ	RS80A Label
SRT	T-42000	Aorta	Fetal Aorta

SRT	T-D0765	Descending Aorta	Dsc Aorta (in Fetal Heart)
SRT	T-45600	Middle Cerebral Artery	Mid Cereb A
SRT	T-44000	Pulmonary Artery	MPA (in Fetal Heart)
SNM3	T-45010	Corotid artory	Lt. Fetal Carotid
SINIVIS	1-45010	Carotid artery	Rt. Fetal Carotid
MDSN	99008-02	Ductus Venosus	Ductus Venosus
MDSN	99008-03	Daniel Arten	Lt. Renal A
IVIDOIN	99006-03	Renal Artery	Rt. Renal A
SRT	T-48710	Inferior vena cava	IVC (in Fetal Heart)
MDSN	99008-07	Ductus Atriosus	Duct A
MDSN	99008-09	Ascending Aorta	Asc Aorta

Table 9.1-27
Context ID 12140 Extended Pelvic Vasculature Anatomical Location

CSD	CV	СМ	RS80A Label
SRT	T-F1810	Umbilical Artery	Umbilical A
SRT	T-46980	Overion Artery	Lt. Ovarian A
	1-40900	Ovarian Artery	Rt. Ovarian A
SRT	T 40000	Literine Autom	Lt. Uterine A (in OB or Gynecology)
	T-46820	Uterine Artery	Rt. Uterine A (in OB or Gynecology)
SRT	T-F1412	Vitelline Artery of Placenta	Placenta A
MDSN	99007-01	Perisystic Flow	Perisystic Flow
MDSN	99007-02	Endometrial Flow	Endometrial Flow

Table 9.1-28

Context ID 12119 Vascular Ultrasound Property

CSD	cv	СМ	RS80A Label
INCLUDE	CID 12120 Extende	ed Blood Velocity Measurements	
INCLUDE	CID 12121 Vascular Indices and Ratios		
INCLUDE	CID 12122 Other V	/ascular Properties	

Table 9.1-29
Context ID 12120 Extended Blood Velocity Measurement

CSD	CV	СМ	RS80A Label
LN	11653-3	End Diastolic Velocity	EDV

LN	11726-7	Peak Systolic Velocity	PSV
LN	20352-1	Time averaged mean velocity	TAMV
LN	11692-1	Time averaged peak velocity	TAPV
MDSN	99008-04	Systolic Peak Velocity	Duct. V S Vmax
MDSN	99008-05	Diastolic Peak Velocity	Duct. V D Vmax
MDSN	99008-06	Atrial Peak Velocity	Duct. V A Vmax

Table 9.1-30
Context ID 12121 Vascular Indices and Ratios

CSD	CV	СМ	RS80A Label
LN	20167-3	Acceleration Index	Acc
SRT	R-101BA	Lumen Area Stenosis	%StA
SRT	R-101BB	Lumen Diameter Stenosis	%StD
LN	12008-9	Pulsatility Index	PI
LN	12023-8	Resistivity Index	RI
LN	12144-2	Systolic to Diastolic Velocity Ratio	S/D

Table 9.1-31
Context ID 12122 Other Vascular Properties

CSD	CV	СМ	RS80A Label
LN	20168-1	Acceleration Time	AccT
LN	20217-6	Deceleration Time	DecT
SRT	G-0364	Vessel lumen diameter	Dout
SRT	R-1025C	Vessel Intimal Diameter	Din
SRT	R-1025D	Vessel Intimal Cross-Sectional Area	Ain
SRT	G-0365	Vessel outside diameter	Vesl. Dist.
SRT	G-0366	Vessel lumen cross-sectional area	Aout
LN	33878-0	Volume flow	Vol. Flow
LN	20247-3	Peak Gradient	PGmax
LN	20256-4	Mean Gradient	PGmean

Table 9.1-32
Context ID 7304 Implant Target Anatomy

CSD	CV	СМ	RS80A Label
SRT	T-12410	Humerus	ним
SRT	T-12420	Radius	RAD
SRT	T-12430	Ulna	ULNA
SRT	T-12440	Tibia	TIB
SRT	T-12450	Fibula	FIB
SRT	T-12310	Clavicle	CLAV

Table 9.1-33
Fetal Cranium Finding Sites

CSD	cv	СМ	RS80A Label
SRT	T-A1700	Anterior Horn Lateral Ventricle	Va
SRT	T-A1710	Posterior Horn Lateral Ventricle	Vp

9.1.2.2 Gestational Age Equations and Tables (Context Group 12013) Table 9.1-34

Gestational Age Equations and Tables

Coding Scheme Designator	Code Value	Code Meaning
LN	11889-3	AC, Campbell 1975
LN	11892-7	AC, Hadlock 1984
LN	33076-1	AC, Shinozuka 1996
LN	11902-4	BPD, Hadlock 1984
LN	33538-0	BPD, Hansmann 1986
LN	11905-7	BPD, Jeanty 1984
LN	11906-5	BPD, Kurtz 1980
LN	33082-9	BPD, Osaka 1989
LN	11907-3	BPD, Sabbagha 1978
LN	33084-5	BPD, Shinozuka 1996
LN	33086-0	BPD-oi, Chitty 1997
LN	33087-8	BPD-oo, Chitty 1997
LN	33088-6	Clavical length, Yarkoni 1985
LN	11910-7	CRL, Hadlock 1992
LN	33540-6	CRL, Hansmann 1986

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LN	11913-1	CRL, Nelson 1981
LN	33093-6	CRL, Osaka 1989
LN	33094-4	CRL, Rempen 1991
LN	11914-9	CRL, Robinson 1975
LN	33095-1	CRL, Shinozuka 1996
LN	33098-5	FL, Chitty 1997
LN	11920-6	FL, Hadlock 1984
LN	33541-4	FL, Hansmann 1986
LN	11922-2	FL, Hohler 1982
LN	11923-0	FL, Jeanty 1984
LN	33101-7	FL, Osaka 1989
LN	33102-5	FL, Shinozuka 1996
LN	11928-9	GS, Hellman 1969
LN	33107-4	GS, Nyberg 1992
LN	33108-2	GS, Tokyo 1986
LN	33110-8	HC measured, Chitty 1997
LN	33111-6	HC derived, Chitty 1997
LN	11932-1	HC, Hadlock 1984
LN	33543-0	HC, Hansmann 1986
LN	11936-2	Humerus, Jeanty 1984
LN	33117-3	Humerus Length, Osaka 1989
LN	33120-7	OFD, Hansmann 1986
LN	11941-2	Tibia, Jeanty 1984
LN	11944-6	Ulna, Jeanty 1984
LN	11929-7	GS, Rempen 1991
LN	33083-7	BPD, Rempen 1991

9.1.2.3 OB Fetal Body Weight Equations and Tables (Context ID 12014) Table 9.1-35

OB Fetal Body Weight Equations and Tables

Coding Scheme Designator	Code Value	Code Meaning
LN	11756-4	EFW by AC, Campbell 1975
LN	11738-2	EFW by AC, BPD, Hadlock 1984
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	33139-7	EFW by BPD, TTD, Hansmann 1986
LN	11739-0	EFW by AC and BPD, Shepard 1982
LN	33140-5	EFW by BPD, FTA, FL, Osaka 1990

9.1.2.4 Fetal Growth Equations and Tables (Context ID 12015) Table 9.1-36

Fetal Growth Equations and Tables

Coding Scheme Designator	Code Value	Code Meaning
LN	33145-4	AC by GA, ASUM 2000
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	33149-6	AC by GA, Shinozuka 1996
LN	33151-2	BPD by GA, ASUM 2000
LN	33198-3	BPD by GA, Hadlock 1984
LN	33556-2	BPD outer-inner by GA, Chitty 1994
LN	33152-0	BPD outer-outer by GA, Chitty 1994
LN	33156-1	BPD by GA, Shinozuka 1996
LN	33161-1	CRL by GA, Shinozuka 1996
LN	33164-5	Fibula by GA, Jeanty 1983
LN	33165-2	FL by GA, ASUM 2000
LN	33166-0	FL by GA, Hadlock 1984
LN	33167-8	FL by GA, Chitty 1994
LN	33170-2	FL by GA, Shinozuka 1996
LN	33172-8	HC by GA, ASUM 2000
LN	33173-6	HC by GA, Hadlock 1984
LN	33174-4	HC derived by GA, Chitty 1994
LN	33177-7	Humerus Length by GA, ASUM 2000
LN	33178-5	OFD by GA, ASUM 2000
LN	33180-1	Radius by GA, Jeanty 1983

LN	33181-9	TCD by GA Goldstein 1987
LN	33155-3	BPD by GA, Rempen 1991
LN	33171-0	GS by GA, Rempen 1991

9.1.2.5 Estimated Fetal Weight Percentile Equations and Tables (Context ID 12016) Table 9.1-37

Estimated Fetal Weight Percentile Equations and Tables

Coding Scheme Designator	Code Value	Code Meaning
LN	33183-5	FWP by GA, Hadlock 1991
LN	33184-3	FWP by GA, Williams, 1982
LN	33189-2	FWP by GA, Brenner 1976

9.2 VASCULAR STRUCTURED REPORT TEMPLATE

9.2.1 Vascular Ultrasound Report Templates (TID 5100)

Table 9.2-1
Vascular Ultrasound Procedure Report Template

No	Rel With Parent	VT	Concept Name	Comments	RS80A Label
1		CONTAINER	(125100, DCM, "Vascular		
		OONTAINER	Ultrasound Procedure Report")		
2	HAS OBS	INCLUDE	DTID (1001) Observation		
	CONTEXT	INOLOBE	Context		
3	CONTAINS	INCLUDE	DTID (5101) Vascular Patient		
3	CONTAINS	INCLUDE	Characteristics		
4	CONTAINS	INCLUDE	DTID (5102) Vascular		
4	CONTAINS	INCLUDE	Procedure Summary Section		
				\$SectionScope = DT (T-40501,	
				SRT, "Blood Vessel of Head")	
_	CONTAINS	INCLUDE	DTID (5103) Vascular	\$SectionLaterality = EV (G-A100,	Rt. TCD
5	CONTAINS	NS INCLUDE	Ultrasound Section	SRT, "Right")	Kt. TCD
				\$Anatomy = DCID (12105) Intracranial	
				Cerebral Vessels	
				\$SectionScope = DT (T-40501,	
				SRT, "Blood Vessel of Head")	
6	CONTAINS	ONTAINS INCLUDE	DTID (5103) Vascular	\$SectionLaterality = EV (G-A101,	Lt. TCD
0	CONTAINS		Ultrasound Section	SRT, "Left")	Lt. TCD
				\$Anatomy = DCID (12105) Intracranial	
				Cerebral Vessels	
				\$SectionScope = DT (T-40501,	
	7 CONTAINS INCLUDE		SRT, "Blood Vessel of Head")		
_		INCLUDE	DTID (5103) Vascular	\$SectionLaterality = EV (G-A103,	TOD
'		INCLUDE	Ultrasound Section	SRT, "Unilateral")	TCD
				\$Anatomy = DCID (12106) Intracranial	
				Cerebral Vessels (unilateral)	
	CONTAINC	MOLLIDE	DTID (5103) Vascular	\$SectionScope = DT (T-45005,	11.0
8	8 CONTAINS	INCLUDE	Ultrasound Section	SRT, "Artery of neck")	Lt. Carotid

				\$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID (12104) Extracranial Arteries \$AnatomyRatio = DCID (12123) Carotid Ratios	-
9	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	\$SectionScope = DT (T-45005, SRT, "Artery of neck") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID (12104) Extracranial Arteries \$AnatomyRatio = DCID (12123) Carotid Ratios	Rt. Carotid
10	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	\$SectionScope = DT (T-47040, SRT, "Artery of Lower Extremity") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID (12109) Lower Extremity Arteries	Lt. LE Artery
11	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	\$SectionScope = DT (T-47040, SRT, "Artery of Lower Extremity") \$SectionLaterality = EV (G-A100, SRT, "Right") \$Anatomy = DCID (12109) Lower Extremity Arteries	Rt. LE Artery
12	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	\$SectionScope = DT (T-49403, SRT, "Vein of Lower Extremity") \$SectionLaterality = EV (G-A101, SRT, "Left") \$Anatomy = DCID (12110) Lower Extremity Veins	Lt. LE Vein
13	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	\$SectionScope = DT (T-49403, SRT, "Vein of Lower Extremity") \$SectionLaterality = EV (G-A100, SRT, "Right")	Rt. LE Vein

				\$Anatomy = DCID (12110) Lower	
				Extremity Veins	
				\$SectionScope = DT (T-47020,	
				SRT, "Artery Of Upper Extremity")	
			DTID (5103) Vascular	\$SectionLaterality = EV (G-A101,	Lt. UE
14	CONTAINS	INCLUDE	Ultrasound Section	SRT, "Left")	Artery
				\$Anatomy = DCID (12107) Upper	-
				Extremity Arteries	
				\$SectionScope = DT (T-47020,	
				SRT, "Artery Of Upper Extremity")	
			DTID (5103) Vascular	\$SectionLaterality = EV (G-A100,	Rt. UE
15	CONTAINS	INCLUDE	Ultrasound Section	SRT, "Right")	Artery
				\$Anatomy = DCID (12107) Upper	-
				Extremity Arteries	
		NS INCLUDE		\$SectionScope = DT (T-49103,	
				SRT, "Vein Of Upper Extremity")	
			DTID (5103) Vascular	\$SectionLaterality = EV (G-A101,	1 <u>-</u>
16	CONTAINS		Ultrasound Section	SRT, "Left")	Lt. UE Vein
				\$Anatomy = DCID (12108) Upper	-
				Extremity Veins	
				\$SectionScope = DT (T-49103,	
				SRT, "Vein Of Upper Extremity")	
47	CONTAINC	INCLUDE	DTID (5103) Vascular	\$SectionLaterality = EV (G-A100,	Rt. UE
17	CONTAINS	INCLUDE	Ultrasound Section	SRT, "Right")	Vein
				\$Anatomy = DCID (12108) Upper	
				Extremity Veins	
				\$SectionScope = DT (T-71019,	
				SRT, "Vascular Structure Of Kidney")	
			DTID (5102) Vessuler	\$SectionLaterality = EV (G-A101,	Lt.
18	CONTAINS	INCLUDE	DTID (5103) Vascular	SRT, "Left")	Abdomen
			Ultrasound Section	\$Anatomy = DCID (12115) Renal Vessels	(Renal)
				\$AnatomyRatio = DCID (12124) Renal	
				Ratios	
			DTID (5103) Vessuler	\$SectionScope = DT (T-71019,	Rt.
19	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	SRT, "Vascular Structure Of Kidney")	Abdomen
			Oni asound Section	\$SectionLaterality = EV (G-A100,	(Renal)

				SRT, "Right")	
				\$Anatomy = DCID (12115) Renal Vessels	
				\$AnatomyRatio = DCID (12124) Renal	
				Ratios	
				\$SectionScope = DT (T-46002,	
				SRT, "Artery of Abdomen")	
			DTID (5103) Vascular	\$SectionLaterality = EV (G-A101,	Lt.
20	CONTAINS	INCLUDE	Ultrasound Section	SRT, "Left")	Abdomen
				\$Anatomy = DCID (12111) Abdominal	(Artery)
				Arteries (lateral)	
				\$SectionScope = DT (T-46002,	
				SRT, "Artery of Abdomen")	
			DTID (5103) Vascular	\$SectionLaterality = EV (G-A100,	Rt.
21	CONTAINS	INCLUDE	Ultrasound Section	SRT, "Right")	Abdomen
				\$Anatomy = DCID (12111) Abdominal	(Artery)
				Arteries (lateral)	
		INCLUDE		\$SectionScope = DT (T-46002,	
				SRT, "Artery of Abdomen")	
			DTID (5103) Vascular	\$SectionLaterality = EV (G-A103,	Abdomen
22	CONTAINS		Ultrasound Section	SRT, "Unilateral")	(Artery)
				\$Anatomy = DCID (12112) Abdominal	
				Arteries (unilateral)	
				\$SectionScope = DT (T-487A0,	
				SRT, "Vein of Abdomen")	
00	CONTAINC	INCLUDE	DTID (5103) Vascular	\$SectionLaterality = EV (G-A101,	Lt.
23	CONTAINS	INCLUDE	Ultrasound Section	SRT, "Left")	Abdomen
				\$Anatomy = DCID (12113) Abdominal	(Vein)
				Veins (lateral)	
				\$SectionScope = DT (T-487A0,	
				SRT, "Vein of Abdomen")	Dt
24	CONTAINE	INCLUDE	DTID (5103) Vascular	\$SectionLaterality = EV (G-A100,	Rt.
24 CON	CONTAINS	INCLUDE	Ultrasound Section	SRT, "Right")	Abdomen (Vein)
			T. Control of the con		(VCIII)
				\$Anatomy = DCID (12113) Abdominal	, ,
				\$Anatomy = DCID (12113) Abdominal Veins (lateral)	
25	CONTAINS	INCLUDE	DTID (5103) Vascular		Abdomen

				\$SectionLaterality = EV (G-A103,	
				SRT, "Unilateral")	
				\$Anatomy = DCID (12114) Abdominal	
				Veins (unilateral)	
				\$SectionScope = DT (T-D4000, SRT,	
200	CONTAINC	INCLUDE	DTID (5103) Vascular	"Abdomen")	Abdomen
26	CONTAINS	INCLUDE	Ultrasound Section	\$Anatomy = DCID (6204) Anatomic Non-	(B- MODE)
				Colon Findings	

9.2.1.1 Observation Context (TID 1001)

Table 9.2-2
Observation Context in Vascular SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
B-1	HAS OBS CONTEXT	CODE	(121005, DCM, "Observer Type")	(121006, DCM, "Person")	
B-2	HAS OBS CONTEXT	PNAME	(121008, DCM, "Person Observer Name")		Ref. Physician
B-3	HAS OBS CONTEXT	CODE	(121024, DCM, "Subject Class")	(121025, DCM, "Patient")	
B-4	HAS OBS CONTEXT	PNAME	(121029, DCM, "Subject Name")		Last Name,First Name
B-5	HAS OBS CONTEXT	DATE	(121031, DCM, "Subject Birth Date")		BirthDate
B-6	HAS OBS CONTEXT	CODE	(121032, DCM, "Subject Sex")	(M, DCM, "Male") (F, DCM, "Female") (U, DCM, "Unknown sex")	Gender
B-7	HAS OBS	NUM	(121033, DCM, "Subject Age")	(mo, UCUM,	Not Used

CONTEXT		"month")	

9.2.1.2 Vascular Patient Characteristics (TID 5101)

Table 9.2-3

Patient Characteristics in Vascular SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
B-8	CONTAINS	CONTAINER	EV (121118, DCM, "Patient Characteristics")		
B-8-1	CONTAINS	NUM	EV (121033, DCM, "Subject Age")	Units = DCID (7456) Units of Measure for Age	Description
B-8-2	CONTAINS	CODE	EV (121032, DCM, "Subject Sex")	DCID (7455) Sex	Height
	CONTAINS	NUM	EV (8867-4, LN, "Heart Rate")		
B-8-3	CONTAINS	NUM	EV (F-008EC, SRT, "Systolic Blood Pressure")		Weight
B-8-4	CONTAINS	NUM	EV (F-008ED, SRT, "Diastolic Blood Pressure")		Gravida

9.2.1.3 Vascular Procedure Summary Section (TID 5102)

Table 9.2-4

Vascular Summary Section

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
			DT (121111,		
B-9	CONTAINS	CONTAINER	DCM,		
			"Summary")		

			DCID (12101)	
B-9-1	CONTAINS	TEXT	Vascular	
			Summary	

9.2.1.4 Vascular Ultrasound Section (TID 5103)

Table 9.2-5
Vascular Ultrasound Section

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
B-10		CONTAINER	DT (121070, DCM,		
D-10		CONTAINER	"Findings")		
B-10-1	HAS CONCEPT	CODE	EV (G-C0E3, SRT,	\$SectionScope	
D-10-1	MOD	CODE	"Finding Site")	\$SectionScope	
B-10-2	HAS CONCEPT	CODE	EV (G-C171, SRT,	Continual atomality	
B-10-2	MOD	CODE	"Laterality")	\$SectionLaterality	
	CONTAINC	INCLUDE	DTID (5104) Vascular	CAnatana Craun - CAnatana	
	CONTAINS	INCLUDE	Measurement Group	\$AnatomyGroup = \$Anatomy	
B-10-3	CONTAINS	CONTAINER	\$AnatomyGroup		
B-10-3-1	HAS CONCEPT	CODE	EV (G-A1F8, SRT,	DCID (12116) Vessel Segment	
B-10-3-1	MOD	CODE	"Topographical Modifier")	Modifiers	
	HAS CONCEPT	CODE	EV (125101, DCM,	DCID (12117) Vessel Branch	
	MOD	CODE	"Vessel Branch")	Modifiers	
				\$Measurement = DCID (12119)	
	CONTAINS	INCLUDE	DTID (200) Magaziromant	Vascular Ultrasound Property	
	CONTAINS	INCLUDE	DTID (300) Measurement	\$Derivation = DCID (3627)	
				Measurement Type	
B-10-2-3-1		NUM	\$Measurement	Units = \$Units	
D 40 0 0 0	HAS CONCEPT	CODE	EV (121401, DCM,	(C) and the second	
B-10-2-3-2	MOD	CODE	"Derivation")	\$Derivation	
	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = \$AnatomyRatio	
B-10-4		NUM	\$Measurement	Units = \$Units	

9.2.2 Vascular Measurement and Calculation used in Vascular SR

Table 9.2-6 Carotid

RS80A Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographical Modifier
Subclavian A	(T-46100, SRT, "Subclavian Artery")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	
PSV	(11726-7, LN, "Peak Systolic Velocity")		
EDV	(11653-3, LN, "End Diastolic Velocity)		
TAPV	(11692-1, LN, "Time averaged peak velocity")		
TAMV	(20352-1, LN, "Time averaged mean velocity")		
PGmax	(20247-3, LN, "Peak Gradient")		
PGmean	(20256-4, LN, "Mean Gradient")		
S/D	(12144-2, LN, "Systolic to Diastolic Velocity Ratio")		
D/S	(99200-01, MDSN, "Diastolic to Systolic Velocity Ratio")		
RI	(12023-8, LN, "Resistivity Index")		
PI	(12008-9, LN, "Pulsatility Index")		
%StA Outer Area	(G-0366, SRT, "Vessel lumen cross-sectional area")		
%StA Inner Area	(R-1025D , SRT, "Vessel Intimal Cross-Sectional Area")		
%StA	(R-101BA , SRT, "Lumen Area Stenosis")		
%StD Outer Dist.	(G-0364, SRT, "Vessel lumen diameter")		
%StD Inner Dist.	(R-1025C, SRT, "Vessel Intimal Diameter")		
%StD	(R-101BB , SRT, "Lumen Diameter Stenosis")		
Vesl. Area	(99200-02, MDSN, "Vessel Area")		
Vol. Flow(A)	(33878-0, LN, "Volume flow")		
Vesl. Dist	(G-0365, SRT, "Vessel outside diameter")		
Vol. Flow(D)	(33878-0, LN, "Volume flow")		
Prox CCA	(T-45100, SRT, "Common Carotid Artery")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	SRT G-A118 Proximal

PSV	(11726-7, LN, "Peak Systolic Velocity")		
EDV	(11653-3, LN, "End Diastolic Velocity")		
TAPV	(11692-1, LN, "Time averaged peak velocity")		
TAMV	(20352-1, LN, "Time averaged mean velocity")		
PGmax	(20247-3, LN, "Peak Gradient")		
PGmean	(20256-4, LN, "Mean Gradient")		
C/D	(12144-2, LN, "Systolic to Diastolic Velocity		
S/D	Ratio")		
D/0	(99200-01, MDSN, "Diastolic to Systolic Velocity		
D/S	Ratio")		
RI	(12023-8, LN, "Resistivity Index")		
PI	(12008-9, LN, "Pulsatility Index")		
%StA	(R-101BA , SRT, "Lumen Area Stenosis")		
%StA Outer Area	(G-0366, SRT, "Vessel lumen cross-sectional		
%SIA Outer Area	area")		
0/ CtA Inner Area	(R-1025D , SRT, " Vessel Intimal Cross-Sectional		
%StA Inner Area	Area")		
%StD	(R-101BB , SRT, "Lumen Diameter Stenosis")		
%StD Outer Dist.	(G-0364, SRT, "Vessel lumen diameter")		
%StD Inner Dist.	(R-1025C , SRT, "Vessel Intimal Diameter")		
Vesl. Area	(99200-02, MDSN, "Vessel Area")		
Vol. Flow(A)	(33878-0, LN, "Volume flow")		
Vesl. Dist	(G-0365, SRT, "Vessel outside diameter")		
Vol. Flow(D)	(33878-0, LN, "Volume flow")		
IMT	(99200-05, MDSN, "Intima-media thickness")		
Mid CCA	(T-45100, SRT, "Common Carotid Artery")	(G-A100, SRT, "Right")	SRT G-A188 Mid-
Wild CCA	(1-45100, SR1, Common Carolid Artery)	(G-A101, SRT, "Left")	longitudinal
Distal CCA	(T-45100, SRT, "Common Carotid Artery")	(G-A100, SRT, "Right")	SRT G-A119
Distal CCA	(1-45100, SR1, Common Carolid Artery)	(G-A101, SRT, "Left")	Distal
Bulb	(T-45170, SRT, "Carotid Bulb")	(G-A100, SRT, "Right")	
Buib	(1-45170, SK1, Calotta Bulb)	(G-A101, SRT, "Left")	
Prox ICA	(T 45300 SPT "Internal Caretid Arteny")	(G-A100, SRT, "Right")	SRT G-A118
FIUXICA	(T-45300, SRT, "Internal Carotid Artery")	(G-A101, SRT, "Left")	Proximal
Mid ICA	(T-45300, SRT, "Internal Carotid Artery")	(G-A100, SRT, "Right")	SRT G-A188 Mid-
.viid 10/1		(G-A101, SRT, "Left")	longitudinal

Distal ICA	(T-45300, SRT, "Internal Carotid Artery")	(G-A100, SRT, "Right")	SRT G-A119
Distai ICA		(G-A101, SRT, "Left")	Distal
ECA	COA (T. 45000, OPT "Fitamed Constitution")		
ECA	(T-45200, SRT, "External Carotid Artery")	(G-A101, SRT, "Left")	
Vertebral A	\/artebrel A \(\tau \) \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/		
VertebrarA	(T-45700, SRT, "Vertebral Artery")	(G-A101, SRT, "Left")	
Comment	(121106, DCM, "Comment")		

Table 9.2-7 LE Artery

RS80A Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographical Modifier
CIA	(T-46710, SRT, "Common Iliac Artery")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	
PSV	(11726-7, LN, "Peak Systolic Velocity")		
EDV	(11653-3, LN, "End Diastolic Velocity")		
TAPV	(11692-1, LN, "Time averaged peak velocity")		
TAMV	(20352-1, LN, " Time averaged mean velocity")		
PGmax	(20247-3, LN, "Peak Gradient")		
PGmean	(20256-4, LN, "Mean Gradient")		
S/D	(12144-2, LN, "Systolic to Diastolic Velocity Ratio")		
D/S	(99200-01, MDSN, "Diastolic to Systolic Velocity Ratio")		
RI	(12023-8, LN, "Resistivity Index")		
PI	(12008-9, LN, "Pulsatility Index")		
%StA	(R-101BA , SRT, "Lumen Area Stenosis")		
%StA Outer	(G-0366, SRT, "Vessel lumen cross-		
Area	sectional area")		
%StA Inner Area	(R-1025D , SRT, "Vessel Intimal Cross- Sectional Area")		
%StD	(R-101BB , SRT, "Lumen Diameter		

	Stenosis")		
%StD Outer	(G-0364, SRT, "Vessel lumen		
Dist.	diameter")		
0/ 0/5 1 5: /	(R-1025C , SRT, "Vessel Intimal		
%StD Inner Dist.	Diameter")		
Vesl. Area	(99200-02, MDSN, "Vessel Area")		
Vol. Flow(A)	(33878-0, LN, "Volume flow")		
West Bist	(G-0365, SRT, "Vessel outside		
Vesl. Dist	diameter")		
Vol. Flow(D)	(33878-0, LN, "Volume flow")		
	(T. 40740, ODT (Hate each Hate Artes 2))	(G-A100, SRT, "Right")	
IIA	(T-46740, SRT, "Internal Iliac Artery")	(G-A101, SRT, "Left")	
E14	(T 40040 ODT %	(G-A100, SRT, "Right")	
EIA	(T-46910, SRT, "External Iliac Artery")	(G-A101, SRT, "Left")	
054	(T-47400, SRT, "Common Femoral	(G-A100, SRT, "Right")	
CFA	Artery")	(G-A101, SRT, "Left")	
054	(T-47403, SRT, "Superficial Femoral	(G-A100, SRT, "Right")	
SFA	Artery")	(G-A101, SRT, "Left")	
DEA	(T-47440, SRT, "Profunda Femoris	(G-A100, SRT, "Right")	
DFA	Artery")	(G-A101, SRT, "Left")	
Denlite al A	(T 47500 CDT "Double of Arton.")	(G-A100, SRT, "Right")	
Popliteal A	(T-47500, SRT, "Popliteal Artery")	(G-A101, SRT, "Left")	
ATA	(T 47700 CDT "Antonion Tibial Antonio")	(G-A100, SRT, "Right")	
AIA	(T-47700, SRT, "Anterior Tibial Artery")	(G-A101, SRT, "Left")	
DTA	(T-47600, SRT, "Posterior Tibial	(G-A100, SRT, "Right")	
PTA	Artery")	(G-A101, SRT, "Left")	
Derencel A	/T 47620 CDT "Derencel Arter.")	(G-A100, SRT, "Right")	
Peroneal A	(T-47630, SRT, "Peroneal Artery")	(G-A101, SRT, "Left")	
DDA	(T 47741 SDT "Doroclio Dodio Artor.")	(G-A100, SRT, "Right")	Artory of Lower Extremity
DPA	(T-47741, SRT, "Dorsalis Pedis Artery")	(G-A101, SRT, "Left")	Artery of Lower Extremity
MDA	(T. 47600 SDT "Dianter Arterial Arch")	(G-A100, SRT, "Right")	VBranch=SRT G-A109 Medial
MPA	(T-47690, SRT, "Plantar Arterial Arch")	(G-A101, SRT, "Left")	VBIANCH-SRT G-AT09 Medial
ΙDΛ	(T. 47600 SDT "Dianter Arterial Arch")	(G-A100, SRT, "Right")	\/Branch=SDT C A404 Lateral
LPA	(T-47690, SRT, "Plantar Arterial Arch")	(G-A101, SRT, "Left")	VBranch=SRT G-A104 Lateral
Metatarsal A	(99201-1, MDSN, "Metatarsal Artery")	(G-A100, SRT, "Right")	

		(G-A101, SRT, "Left")	
Digital A (99	(99201-2, MDSN, "Digitgal Artery")	(G-A100, SRT, "Right")	
		(G-A101, SRT, "Left")	
HR			
Comment	(121106, DCM, "Comment")		

Table 9.2-8 LE Vein

RS80A Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographical Modifier
CD/	/T 40020 CDT "Common High Vein"\	(G-A100, SRT, "Right")	
CIV	(T-48920, SRT, "Common Iliac Vein")	(G-A101, SRT, "Left")	
Vmax	(99200-03, MDSN, "Max Velocity")		
Duration Time	(99200-04, MDSN, "Duration Time")		
Vesl. Dist.	(G-0365, SRT, "Vessel outside diameter")		
IIV	(T 49040 SDT "Internal ilias vain")	(G-A100, SRT, "Right")	
IIV	(T-48940, SRT, "Internal iliac vein")	(G-A101, SRT, "Left")	
EIV	(T-48930, SRT, "External Iliac Vein")	(G-A100, SRT, "Right")	
EIV	(1-40930, SR1, External mac veni)	(G-A101, SRT, "Left")	
CEV	(C 035D SDT "Common Formers Noin")	(G-A100, SRT, "Right")	
CFV	(G-035B, SRT, "Common Femoral Vein")	(G-A101, SRT, "Left")	
SFV	(2.005A_0DT "0_005id F_0004 N/cid")	(G-A100, SRT, "Right")	
31 V	(G-035A , SRT, "Superficial Femoral Vein")	(G-A101, SRT, "Left")	
GSV	(T-49530, SRT, "Great Saphenous Vein")	(G-A100, SRT, "Right")	
937	(1-49000, OKT, Great Saprienous Veilt)	(G-A101, SRT, "Left")	
Popliteal V	(T-49640, SRT, "Popliteal Vein")	(G-A100, SRT, "Right")	
Popilieal v	(1-49040, SK1, Popilieal Vell1)	(G-A101, SRT, "Left")	
LSV	(T-49550, SRT, "Lesser Saphenous Vein")	(G-A100, SRT, "Right")	
LSV	(1-49000, OKT, Lesser Saprierious Veirr)	(G-A101, SRT, "Left")	
ATV	ATIV (T 40000 OFT #A 4 : TH: IV : 1)		
Alv	(T-49630, SRT, "Anterior Tibial Vein")	(G-A101, SRT, "Left")	
DTV	/T 40020 CDT "Doots in Tibin! \/sin"\	(G-A100, SRT, "Right")	
PTV	(T-49620, SRT, "Posterior Tibial Vein")	(G-A101, SRT, "Left")	
Peroneal V	(T-49650, SRT, "Peroneal Vein")	(G-A100, SRT, "Right")	

		(G-A101, SRT, "Left")	
MPV	(00202 04 MDSN "Modial Plantar Vois")	(G-A100, SRT, "Right")	
IVIFV	(99203-01, MDSN, "Medial Plantar Vein")	(G-A101, SRT, "Left")	
LPV	(99203-02, MDSN, "Lateral Plantar Vein")	(G-A100, SRT, "Right")	
LPV	(99203-02, IVIDSIN, Lateral Flantai Veili)	(G-A101, SRT, "Left")	
Metatarsal V		(G-A100, SRT, "Right")	
iviciatai sai v	(99203-03, MDSN, "Metatarsal Vein")	(G-A101, SRT, "Left")	
Digital V	(99203-04, MDSN, "Digital Vein")	(G-A100, SRT, "Right")	
Digital V	(88203-04, MIDSIN, Digital Velit)	(G-A101, SRT, "Left")	
Comment	(121106, DCM, "Comment")		

Table 9.2-9 UE Artery

RS80A Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographi cal Modifier
Subclavian A	(T-46100, SRT, "Subclavian Artery")	(G-A100, SRT, "Right")	
Subclavian	(1-40100, SIXT, Subclavial Artery)	(G-A101, SRT, "Left")	
PSV	(11726-7, LN, "Peak Systolic Velocity")		
EDV	(11653-3, LN, "End Diastolic Velocity")		
TAPV	(11692-1, LN, "Time averaged peak velocity")		
TAMV	(20352-1, LN, "Time averaged mean velocity")		
PGmax	(20247-3, LN, "Peak Gradient")		
PGmean	(20256-4, LN, "Mean Gradient")		
S/D	(12144-2, LN, "Systolic to Diastolic Velocity		
3/0	Ratio")		
D/S	(99200-01, MDSN, "Diastolic to Systolic Velocity		
D/S	Ratio")		
RI	(12023-8, LN, "Resistivity Index")		
PI	(12008-9, LN, "Pulsatility Index")		
%StA	(R-101BA , SRT, "Lumen Area Stenosis")		
0/ 014 0 15 4 5	(G-0366, SRT, "Vessel lumen cross-sectional		
%StA Outer Area	area")		
0/ CtA Innor Area	(R-1025D, SRT, "Vessel Intimal Cross-Sectional		
%StA Inner Area	Area")		

%StD	(R-101BB, SRT, "Lumen Diameter Stenosis")	
%StD Outer Dist.	(G-0364, SRT, "Vessel lumen diameter")	
%StD Inner Dist.	(R-1025C , SRT, "Vessel Intimal Diameter")	
Vesl. Area	(99200-02, MDSN, "Vessel Area")	
Vol. Flow(A)	(33878-0, LN, "Volume flow")	
Vesl. Dist	(G-0365, SRT, "Vessel outside diameter")	
Vol. Flow(D)	(33878-0, LN, "Volume flow")	
Avillan, A	(T.47100 SPT "Avillary Arton,")	(G-A100, SRT, "Right")
Axillary A	(T-47100, SRT, "Axillary Artery")	(G-A101, SRT, "Left")
Brachial A	(T-47160, SRT, "Brachial Artery")	(G-A100, SRT, "Right")
Bracillal A		(G-A101, SRT, "Left")
Radial A	(T.47300 SPT "Padial Arton;")	(G-A100, SRT, "Right")
Naulai A	(T-47300, SRT, "Radial Artery")	(G-A101, SRT, "Left")
Ulnar A	(T-47200, SRT, "Ulnar Artery")	(G-A100, SRT, "Right")
Ollial A	(1-47200, SK1, Olliai Artery)	(G-A101, SRT, "Left")
SPA	(T-47240, SRT, "Superficial Palmar Arch")	(G-A100, SRT, "Right")
SFA		(G-A101, SRT, "Left")
HR		
Comment	(121106, DCM, "Comment")	

Table 9.2-10 UE Vein

RS80A Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographical Modifier
Internal Jugular V	(T-48170, SRT, "Internal Jugular vein")	(G-A100, SRT, "Right")	
internal Jugulai V	(1-40170, SIXI, internal Jugular veil)	(G-A101, SRT, "Left")	
Vmax	(99200-03, MDSN, "Max Velocity")		
Duration Time	(99200-04, MDSN, "Duration Time")		
	(G-0365, SRT, "Vessel outside		
Vesl. Dist.	diameter")		
la marain ata V	(T-48620, SRT, "Innominate vein")	(G-A100, SRT, "Right")	
Innominate V		(G-A101, SRT, "Left")	
Subslavian V	/T 49220 CDT "Cubologion vein"\	(G-A100, SRT, "Right")	
Subclavian V	(T-48330, SRT, "Subclavian vein")	(G-A101, SRT, "Left")	

Comment	(121106, DCM, "Comment")		
Ulnar V	(T-49330, SRT, "Ulnar vein")	(G-A101, SRT, "Left")	
I II a a V	(T. 40000, ODT (II II an ancie ")	(G-A100, SRT, "Right")	
Radial V	(T-49340, SRT, "Radial vein")	(G-A101, SRT, "Left")	
Destal	(T 40040 ODT "D - 151 - 52")	(G-A100, SRT, "Right")	
Basilic V	(T-48052, SRT, "Basilic vein")	(G-A101, SRT, "Left")	
Docilio V	(T 40052 CDT "Positionsis")	(G-A100, SRT, "Right")	
Cephalic V	(T-49240, SRT, "Cephalic vein")	(G-A101, SRT, "Left")	
Conholio	(T 40240, SDT "Conholio voin")	(G-A100, SRT, "Right")	
Brachial V	(T-49350, SRT, "Brachial vein")	(G-A101, SRT, "Left")	
Drochiol V	(T 40350 SDT "Prochiel vein")	(G-A100, SRT, "Right")	
Axillary V	(T-49110, SRT, "Axillary vein")	(G-A101, SRT, "Left")	
Avillan () /	(T 40110 SPT "Avillang voin")	(G-A100, SRT, "Right")	

9.3 ADULT ECHOCARDIOGRAPHY STRUCTURED REPORT TEMPLATE

9.3.1 Adult Echocardiography Ultrasound Report Templates(TID 5200)

Table 9.3-1
Adult Echocardiography Ultrasound Procedure Report Tempalte

No	Rel With Parent	VT	Concept Name	Comments
			EV (125200, DCM, "Adult	
1		CONTAINER	Echocardiography	
			Procedure Report")	
	HAS		DTID (1204) Language of	
2	CONCEPT	INCLUDE	Content Item and	
	MOD		Descendants	
3	HAS OBS	INCLUDE	DTID (1001) Observation	
3	CONTEXT	INCLUDE	Context	
			DTID (5201)	
4	CONTAINS	INCLUDE	Echocardiography Patient	
			Characteristics	
5	CONTAINS	CONTAINER	(111028, DCM, "Image	
5	CONTAINS	CONTAINER	Library")	
6	CONTAINS	IMAGE	No purpose of reference	

				\$SectionSubject = EV (T-32600, SRT, "Left Ventricle")
7	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12200) Echocardiography Left
				Ventricle
				\$SectionSubject = EV (T-32500, SRT, "Right Ventricle")
8	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12204) Echocardiography Right
				Ventricle
				\$SectionSubject = EV (T-32300, SRT, "Left Atrium")
9	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12205) Echocardiography Left
				Atrium
				\$SectionSubject = EV (T-32200, SRT, "Right Atrium")
10	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12206) Echocardiography Right
				Atrium
				\$SectionSubject = EV (T-35400, SRT, "Aortic Valve")
11	CONTAINS	ITAINS INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12211) Echocardiography Aortic
				Valve
		AINS INCLUDE	DTID (5202) Echo Section	\$SectionSubject = EV (T-35300, SRT, "Mitral Valve")
12	CONTAINS			\$MeasType = DCID (12207) Echocardiography Mitral
				Valve
				\$SectionSubject = EV (T-35200, SRT, "Pulmonic Valve")
13	CONTAINS	TAINS INCLUDE DTID (5202) Echo Section		\$MeasType = DCID (12209) Echocardiography
				Pulmonic Valve
				\$SectionSubject = EV (T-35100, SRT, "Tricuspid Valve")
14	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12208) Echocardiography
				Tricuspid Valve
45	CONTAINO	INCLUDE	DTID (5000) Falls Oasting	\$SectionSubject = EV (T-42000, SRT, "Aorta")
15	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType= DCID (12212) Echocardiography Aorta
				\$SectionSubject = EV (T-44000, SRT, "Pulmonary
40	CONTAINO	INOLLIDE	DTID (5000) Falls Ocalian	artery")
16	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType DCID (12210) = Echocardiography
				Pulmonary Artery
				\$SectionSubject = EV (T-48600, SRT, "Vena Cava"
17	CONTAINS	ONTAINS INCLUDE DTID (5202) Echo Section		\$MeasType = DCID (12215) Echocardiography Vena
				Cavae
40	OONTAINS	MOLLIDE	DTID (5000) T. I. T. II	\$SectionSubject = EV (T-48581, SRT, "Pulmonary
18	18 CONTAINS INCLUDE		DTID (5202) Echo Section	Venous Structure"

				\$MeasType = DCID (12214) Echocardiography
				Pulmonary Veins
		NS INCLUDE	DTID (5202) Echo Section	\$SectionSubject = EV (P5-30031, SRT, "Cardiac Shunt
19	CONTAINS			Study")
19	19 CONTAINS			\$MeasType = DCID (12217) Echocardiography Cardiac
				Shunt

9.3.1.1.1 Cardiac Measurement and Calculation used in Adult Echocardiography SR

- Label Label of measurement or calculation used in Cardiac Calc. package for the Ultrasound System
- FSite Finding Site
- Concept (CV, CSD, "Concept Name")
- Modifier Additional codes and Modifiers used

Table 9.3-2
Cardiac Measurement and Calculation

Label	FSite	Concept	Modifiers
LVIDd	Left Ventricle	(29436-3, LN, "Left Ventricle Internal End	
LVIDU	Leit vertificie	Diastolic Dimension")	
LVIDs	Left Ventricle	(29438-9, LN, "Left Ventricle Internal Systolic	
LVIDS	Leit veritricie	Dimension")	
Frac Short	Left Ventricle	(18051-3, LN, "Left Ventricular Fractional	
Frac Short	Leit vertificie	Shortening")	
IVSd	Left Ventricle	(18154-5, LN, "Interventricular Septum	
IVSu		Diastolic Thickness")	
IVSs	Left Ventricle	(18158-6, LN, "Interventricular Septum	Image Mode = 2D mode
1035		Systolic Thickness")	
IVS% Thickening	Left Ventricle	(18054-7, LN, "Interventricular Septum %	
1V3 // Triickeriing		Thickening")	
LVPWd	Left Ventricle	(18152-9, LN, "Left Ventricle Posterior Wall	
LVPVVd	Leit ventricle	Diastolic Thickness")	
LVPWs	Loft Ventriele	(18156-0, LN, "Left Ventricle Posterior Wall	
LVFVVS	Left Ventricle	Systolic Thickness")	
LVPW%	Left Ventricle	(18053-9, LN, "Left Ventricle Posterior Wall %	

Thickening		Thickening")	
IV (O -1/1) / [D) A / -1	Left Ventricle	(18155-2, LN, "Interventricular Septum to	Image Mode = 2D mode
IVSd/LVPWd		Posterior Wall Thickness Ratio")	Cardiac Cycle Point = Diastole
IV.C o /I V/D\M o	l oft \/omtwiele	(18155-2, LN, "Interventricular Septum to	Image Mode = 2D mode
IVSs/LVPWs	Left Ventricle	Posterior Wall Thickness Ratio")	Cardiac Cycle Point = Systole
Val d/Taiabhalz)	Loft \/ontriolo	(18026-5, LN, "Left Ventricular End Diastolic	Image Mode = 2D mode
Vol.d(Teichholz)	Left Ventricle	Volume")	Measurement Method = Teichholz
Vol.d(Cubed)	Left Ventricle	(18026-5, LN, "Left Ventricular End Diastolic	Image Mode = 2D mode
voi.u(Cubeu)	Len venticle	Volume")	Measurement Method = Cube Method
Vol. c/Toiobholz)	Left Ventricle	(18148-7, LN, "Left Ventricular End Systolic	Image Mode = 2D mode
Vol.s(Teichholz)	Leit veritricie	Volume")	Measurement Method = Teichholz
Vol.s(Cubed)	Left Ventricle	(18148-7, LN, "Left Ventricular End Systolic	Image Mode = 2D mode
voi.s(Cubeu)	Len venticle	Volume")	Measurement Method = Cube Method
EF	Left Ventricle	(18043-0, LN, "Left Ventricular Ejection	Image Mode = 2D mode
Er	Len ventricle	Fraction")	Image Mode – 2D mode
SV	Left Ventricle	(F-32120, SRT, "Stroke Volume")	Image Mode = 2D mode
SI	Left Ventricle	(F-00078, SRT, "Stroke Index")	Image Mode = 2D mode"
СО	Left Ventricle	(F-32100, SRT, "Cardiac Output")	Image Mode = 2D mode
CI	Left Ventricle	(F-32110, SRT, "Cardiac Index")	Image Mode = 2D mode
Mass	Left Ventricle	(18087-7, LN, "Left Ventricle Mass")	Image Mode = 2D mode
RVIDd	Left Ventricle	(20304-2, LN, "Right Ventricular Internal	Imaga Mada = 2D mada
RVIDU		Diastolic Dimension")	Image Mode = 2D mode
RVIDs	Left Ventricle	(20305-9, LN, "Right Ventricular Internal	Imaga Mada = 2D mada
RVIDS	Len ventricle	Systolic Dimension")	Image Mode = 2D mode
RVAWd	Left Ventricle	(18153-7, LN, "Right Ventricle Anterior Wall	Image Mode = 2D mode
RVAVVu	Len ventricle	Diastolic Thickness")	Image Mode – 2D mode
RVAWs	Left Ventricle	(18157-8, LN, "Right Ventricular Anterior Wall	Image Mode = 2D mode
RVAVVS	Len ventricle	Systolic Thickness")	Image Mode – 2D mode
LVIDd	Left Ventricle	(29436-3, LN, "Left Ventricle Internal End	Imaga Mada - M mada
LVIDQ	Len ventricle	Diastolic Dimension")	Image Mode = M mode
LVIDs	Loft Vantriala	(29438-9, LN, "Left Ventricle Internal Systolic	Image Mode = M mode
LVIDS	Left Ventricle	Dimension")	image wode – wimode
Frac Short	Left Ventrials	(18051-3, LN, "Left Ventricular Fractional	Image Mode = M mode
TIAC SHOIL	t Left Ventricle	Shortening")	Image Mode = M mode
IVSd	Left Ventricle	(18154-5, LN, "Interventricular Septum	Image Mode = M mode

		Diastolic Thickness")	
IVSs	Left Ventricle	(18158-6, LN, "Interventricular Septum	Image Mode = M mode
1003	Leit ventilicie	Systolic Thickness")	image wode – wimode
IVS% Thickening	Left Ventricle	(18054-7, LN, "Interventricular Septum %	Image Mode = M mode
1VO 70 THICKCHING	LCIT VCHUICIC	Thickening")	image wode – wimode
LVPWd	Left Ventricle	(18152-9, LN, "Left Ventricle Posterior Wall	Image Mode = M mode
271 770	Lore vortations	Diastolic Thickness")	image mode immode
LVPWs	Left Ventricle	(18156-0, LN, "Left Ventricle Posterior Wall	Image Mode = M mode
20.00		Systolic Thickness")	mage meas mines
LVPW%	Left Ventricle	(18053-9, LN, "Left Ventricle Posterior Wall %	Image Mode = M mode
Thickening		Thickening")	in age mode in mode
IVSd/LVPWd	Left Ventricle	(18155-2, LN, "Interventricular Septum to	Image Mode = M mode
IVSs/LVPWs		Posterior Wall Thickness Ratio")	-
Vol.d(Teichholz)	Left Ventricle	(18026-5, LN, "Left Ventricular End Diastolic	Image Mode = M mode
,		Volume")	Measurement Method = Teichholz
Vol.d(Cubed)	Left Ventricle	(18026-5, LN, "Left Ventricular End Diastolic	Image Mode = M mode
, ,		Volume")	Measurement Method = Teichholz
Vol.s(Teichholz)	Left Ventricle	(18148-7, LN, "Left Ventricular End Systolic	Image Mode = M mode
, ,		Volume")	3
Vol.s(Cubed)	Left Ventricle	(18148-7, LN, "Left Ventricular End Systolic	Image Mode = M mode
,		Volume")	
EF	Left Ventricle	(18043-0, LN, "Left Ventricular Ejection	Image Mode = M mode
		Fraction")	
SV	Left Ventricle	(F-32120, SRT, "Stroke Volume")	Image Mode = M mode
SI	Left Ventricle	(F-00078, SRT, "Stroke Index")	Image Mode = M mode
СО	Left Ventricle	(F-32100, SRT, "Cardiac Output")	Image Mode = M mode
CI	Left Ventricle	(F-32110, SRT, "Cardiac Index")	Image Mode = M mode
Mass	Left Ventricle	(18087-7, LN, "Left Ventricle Mass")	Image Mode = M mode
RVIDd	Left Ventricle	(20304-2, LN, "Right Ventricular Internal	Image Mode = M mode
TWIEG	2010 7011010	Diastolic Dimension")	image mede immede
RVIDs	Left Ventricle	(20305-9, LN, "Right Ventricular Internal	Image Mode = M mode
	Leit veritricie	Systolic Dimension")	go modo immodo
RVAWd	Left Ventricle	(18153-7, LN, "Right Ventricle Anterior Wall	Image Mode = M mode
100,000	Leit ventilicie	Diastolic Thickness")	mago modo m modo
RVAWs	Left Ventricle	(18157-8, LN, "Right Ventricular Anterior Wall	Image Mode = M mode

		Systolic Thickness")	
			Image Mode = 2D mode
			Image View = Apical Four Chamber
A4C d Length	Left Ventricle		Measurement Method = Method Of
		(29436-3, LN, "Left Ventricle Internal End	Disks, Single Plane
		Diastolic Dimension")	Image Mode = 2D mode
			Image View = Apical Two Chamber
A2C d Length	Left Ventricle		Measurement Method = Method of
			Disks, Single Plane
			Image Mode = 2D mode
			Image View = Apical Four Chamber
A4C s Length	Left Ventricle		Measurement Method = Method Of
		(29438-9, LN, "Left Ventricle Internal Systolic	Disks, Single Plane
		Dimension")	Image Mode = 2D mode
100 a l a math	Left Ventricle		Image View = Apical Two Chamber
A2C s Length			Measurement Method = Method of
			Disks, Single Plane
	Left Ventricle	(G-0375, SRT, "Left Ventricular Diastolic	Image Mode = 2D mode
A 40 d A			Image View = Apical Four Chamber
A4C d Area			Measurement Method = Method Of
			Disks, Single Plane
	Left Ventricle	Area")	Image Mode = 2D mode
A2C d Azaa			Image View = Apical Two Chamber
A2C d Area			Measurement Method = Method of
			Disks, Single Plane
			Image Mode = 2D mode
A 4 C a A 7 a a	l oft \/ontrialo		Image View = Apical Four Chamber
A4C s Area	Left Ventricle		Measurement Method = Method Of
		(G-0374, SRT, "Left Ventricular Systolic	Disks, Single Plane
		Area")	Image Mode = 2D mode
A2C - Az	l oft \/ontrialo		Image View = Apical Two Chamber
A2C s Area	Left Ventricle		Measurement Method = Method of
			Disks, Single Plane
		(19026 E IN "I of Vantain I of Direct "	Image Mode = 2D mode
A4C Vol.d	Left Ventricle	(18026-5, LN, "Left Ventricular End Diastolic	Image View = Apical Four Chamber
		Volume")	Measurement Method = Method Of

			Disks, Single Plane
			Image Mode = 2D mode
A2C Vol.d	Left Ventricle		Image View = Apical Two Chamber
			Measurement Method = Method of
			Disks, Single Plane
			Image Mode = 2D mode
BP Vol.d	Left Ventricle		Measurement Method = Method of
			Disks, Biplane
			Image Mode = 2D mode
A4C Vol.s	Left Ventricle		Image View = Apical Four Chamber
A4C VOI.3	Len venincie		Measurement Method = Method Of
			Disks, Single Plane
		(19149 7 LN "Loft Ventriouler End Systelia	Image Mode = 2D mode
A2C Vol.s	Left Ventricle	(18148-7, LN, "Left Ventricular End Systolic Volume")	Image View = Apical Two Chamber
AZC VOI.S			Measurement Method = Method of
			Disks, Single Plane
	Left Ventricle		Image Mode = 2D mode
BP Vol.s			Measurement Method = Method of
			Disks, Biplane
	Left Ventricle		Image Mode = 2D mode
A4C EF			Image View = Apical Four Chamber
A4C LI			Measurement Method = Method Of
			Disks, Single Plane
		(19042 O. I.N. "Left Ventriouler Fiestien	Image Mode = 2D mode
A2C EF	Loft Vantriala	(18043-0, LN, "Left Ventricular Ejection	Image View = Apical Two Chamber
AZC EF	Left Ventricle	Fraction")	Measurement Method = Method of
			Disks, Single Plane
			Image Mode = 2D mode
BP EF	Left Ventricle		Measurement Method = Method of
			Disks, Biplane
			Image Mode = 2D mode
A4C SV	Loft Vontrials	(E 22120 CDT "Ctroke Volumes")	Image View = Apical Four Chamber
A4C SV	Left Ventricle	(F-32120, SRT, "Stroke Volume")	Measurement Method = Method Of
			Disks, Single Plane

			Image Mode = 2D mode
	Left Ventricle		Image View = Apical Two Chamber
A2C SV			Measurement Method = Method Of
			Disks, Single Plane
			Image Mode = 2D mode
BP SV	Left Ventricle		Measurement Method = Method of
			Disks, Biplane
			Image Mode = 2D mode
			Image View = Apical Four Chamber
A4C SI	Left Ventricle		Measurement Method = Method Of
			Disks, Single Plane
			Image Mode = 2D mode
		(F-00078, SRT, "Stroke Index")	Image View = Apical Two Chamber
A2C SI	Left Ventricle		Measurement Method = Method Of
			Disks, Single Plane
			Image Mode = 2D mode
BP SI	Left Ventricle		Measurement Method = Method of
			Disks, Biplane
	Left Ventricle	(F-32100, SRT, "Cardiac Output")	Image Mode = 2D mode
A4C CO			Image View = Apical Four Chamber
A4C CO			Measurement Method = Method Of
			Disks, Single Plane
	Left Ventricle		Image Mode = 2D mode
420.00			Image View = Apical Two Chamber
A2C CO			Measurement Method = Method Of
			Disks, Single Plane
			Image Mode = 2D mode
BP CO	Left Ventricle		Measurement Method = Method of
			Disks, Biplane
			Image Mode = 2D mode
A4C CI	Left Ventricle		Image View = Apical Four Chamber
A4C CI	Len ventricie		Measurement Method = Method Of
		(F-32110, SRT, "Cardiac Index")	Disks, Single Plane
			Image Mode = 2D mode
A2C CI	Left Ventricle		Image View = Apical Two Chamber
			Measurement Method = Method Of

			Disks, Single Plane
			Image Mode = 2D mode
BP CI	Left Ventricle		Measurement Method = Method of
			Disks, Biplane
		(18026-5, LN, "Left Ventricular End Diastolic	Image Mode = 2D mode
Vol.d	Left Ventricle	Volume")	Measurement Method = Area-Length
			Single Plane
		(18148-7, LN, "Left Ventricular End Systolic	Image Mode = 2D mode
Vol.s	Left Ventricle	Volume")	Measurement Method = Area-Length
			Single Plane
		(18043-0, LN, "Left Ventricular Ejection	Image Mode = 2D mode
EF	Left Ventricle	Fraction")	Measurement Method = Area-Length
		,	Single Plane
		(F-32120, SRT, "Stroke Volume")	Image Mode = 2D mode
SV	Left Ventricle		Measurement Method = Area-Length
٥,	Lone voluntions		Single Plane
			Image Mode = 2D mode
SI	Left Ventricle	(F-00078, SRT, "Stroke Index")	Measurement Method = Area-Length
01			Single Plane
	Left Ventricle	(F-32100, SRT, "Cardiac Output")	Image Mode = 2D mode
СО			Measurement Method = Area-Length
CO			Single Plane
			Image Mode = 2D mode
CI	Left Ventricle	(F-32110, SRT, "Cardiac Index")	Measurement Method = Area-Length
Cl	Left verificie	(F-32110, SR1, Caldiac index)	Single Plane
1) /A d a a v	l oft \/ontrialo	(G-0375, SRT, "Left Ventricular Diastolic	Image Mode = 2D mode
LVAd sax	Left Ventricle	Area")	Image View = Parasternal short axis
1)//	l oft \/outsigle	(G-0374, SRT, "Left Ventricular Systolic	Image Mode = 2D mode
LVAs sax	Left Ventricle	Area")	Image View = Parasternal short axis
1371 - 1 1	1 -411-12-1	(18077-8, LN, "Left Ventricle diastolic major	Image Made = 0D
LVLd apical	Left Ventricle	axis")	Image Mode = 2D mode
LVLs apical	Left Ventricle	(18076-0, LN, "Left Ventricle systolic major axis")	Image Mode = 2D mode
Vol.d	Left Ventricle	(18026-5, LN, "Left Ventricular End Diastolic Volume")	Image Mode = 2D mode

Vol.s	Left Ventricle	(18148-7, LN, "Left Ventricular End Systolic Volume")	Image Mode = 2D mode
EF	Left Ventricle	(18043-0, LN, "Left Ventricular Ejection Fraction")	Image Mode = 2D mode
SV	Left Ventricle	(F-32120, SRT, "Stroke Volume")	Image Mode = 2D mode
SI	Left Ventricle	(F-00078, SRT, "Stroke Index")	Image Mode = 2D mode
CO	Left Ventricle	(F-32100, SRT, "Cardiac Output")	Image Mode = 2D mode
CI	Left Ventricle	(F-32110, SRT, "Cardiac Index")	Image Mode = 2D mode
Frac. Short	Left Ventricle	(18051-3, LN, "Left Ventricular Fractional Shortening")	Image Mode = 2D mode
Frac. Area Change	Left Ventricle	(G-0376, SRT, "Left Ventricular Fractional Area Change")	Image Mode = 2D mode
LVAd sax epi	Left Ventricle	(G-0379, SRT, "Left Ventricle Epicardial Diastolic Area, psax pap view")	Image Mode = 2D mode
LVLd apical	Left Ventricle	(18077-8, LN, "Left Ventricle diastolic major axis")	Image Mode = 2D mode
LV Mass	Left Ventricle	(18087-7, LN, "Left Ventricle Mass")	Image Mode = 2D mode
RVIDd	Right Ventricle	(20304-2, LN, "Right Ventricular Internal Diastolic Dimension")	Image Mode = 2D mode
RVIDs	Right Ventricle	(20305-9, LN, "Right Ventricular Internal Systolic Dimension")	Image Mode = 2D mode
RVAWd	Right Ventricle	(18153-7, LN, "Right Ventricle Anterior Wall Diastolic Thickness")	Image Mode = 2D mode
RVAWs	Right Ventricle	(18157-8, LN, "Right Ventricular Anterior Wall Systolic Thickness")	Image Mode = 2D mode
MPA Diam	Right Ventricle	(18020-8, LN, "Main Pulmonary Artery Diameter")	
RPA Diam	Right Ventricle	(18021-6, LN, "Right Pulmonary Artery Diameter")	
LPA Diam	Right Ventricle	(18019-0, LN, "Left Pulmonary Artery Diameter")	
RVIDd	Right Ventricle	(20304-2, LN, "Right Ventricular Internal Diastolic Dimension")	Image Mode = M mode
RVIDs	Right Ventricle	(20305-9, LN, "Right Ventricular Internal Systolic Dimension")	Image Mode = M mode

RVAWd	Right Ventricle	(18153-7, LN, "Right Ventricle Anterior Wall Diastolic Thickness")	Image Mode = M mode
RVAWs	Right Ventricle	(18157-8, LN, "Right Ventricular Anterior Wall Systolic Thickness")	Image Mode = M mode
LA Diam	Left Atrium	(29469-4, LN, "Left Atrium Antero-posterior Systolic Dimension")	Image Mode = 2D mode
LA Area	Left Atrium	(17977-0, LN, "Left Atrium Systolic Area")	Image Mode = 2D mode
LA Vol.	Left Atrium	(G-0383, SRT, "Left Atrium Systolic Volume")	Image Mode = 2D mode
Ao Root	Aorta	(18015-8, LN, Aortic Root Diameter)	Image Mode = 2D mode
LA Diam.	Left Atrium	(29469-4, LN, "Left Atrium Antero-posterior Systolic Dimension")	Image Mode = 2D mode
LA/Ao	Left Atrium	(17985-3, LN, "Left Atrium to Aortic Root Ratio")	Image Mode = 2D mode
LVOT Diam	Left Ventricular	(G-038F, SRT, "Cardiovascular Orifice	
LVOT Diam	Outflow Tract	Diameter")	
Asc Ao	Aorta	(18012-5, LN, "Ascending Aortic Diameter")	
Desc Ao	Aorta	(18013-3, LN, "Descending Aortic Diameter")	
Ao Arch	Aorta	(18011-7, LN, "Aortic Arch Diameter")	
Ao Isth Diam	Aorta	(18014-1, LN, "Aortic Isthmus Diameter")	
Ao Root	Aorta	(18015-8, LN, "Aortic Root Diameter")	Image Mode = M mode
AV Cusp Sep	AV	(17996-0, LN, "Aortic Valve Cusp Separation")	Image Mode = M mode
LA Diam.	Left Atrium	(29469-4, LN, "Left Atrium Antero-posterior Systolic Dimension")	Image Mode = M mode
LA/Ao	Left Atrium	(17985-3, LN, "Left Atrium to Aortic Root Ratio")	Image Mode = M mode
RAP	Right Atrium	(G-0380, SRT, "Right Ventricular Peak Systolic Pressure")	
RAAs	Right Atrium	(17988-7, LN, "Right Atrium Systolic Area")	
IVC Diam Ins.	Right Atrium	(18006-7, LN, "Inferior Vena Cava Diameter")	Respiratory Cycle Point = During Inspiration
IVC Diam Exp.	Right Atrium	(18006-7, LN, "Inferior Vena Cava Diameter")	Respiratory Cycle Point = During Expiration
IVC % Change	Right Atrium	(18050-5, LN, "Inferior Vena Cava % Collapse")	

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LVOT Diam	Left Ventricular	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode
	Outflow Tract	Diameter")	
LVOT Area	Left Ventricular	(G-038E, SRT, "Cardiovascular Orifice Area")	Image Mode = 2D mode
	Outflow Tract	,	g
Vmax	Left Ventricular	(11726-7, LN, "Peak Velocity")	
	Outflow Tract	(zo ., z., . can coon, ,	
Pgmax	Left Ventricular	(20247-3, LN, "Peak Gradient")	
i gillax	Outflow Tract	(20247-5, LIN, Teak Gradient)	
\	Left Ventricular	(00050 4 1N1 "Massa Valasita")	
Vmean	Outflow Tract	(20352-1, LN, "Mean Velocity")	
_	Left Ventricular		
Pgmean	Outflow Tract	(20256-4, LN, "Mean Gradient")	
	Left Ventricular		
VTI	Outflow Tract	(20354-7, LN, "Velocity Time Integral")	
	Left Ventricular		
AccT	Outflow Tract	(20168-1, LN, "Acceleration Time")	
014	Left Ventricular	(F-32120, SRT, "Stroke Volume")	
SV	Outflow Tract		
00	Left Ventricular	(F-32100, SRT, "Cardiac Output")	
СО	Outflow Tract		
	Right	(0.0005.007.00.00.00.00.00.00.00.00.00.00.00.00	
RVOT Diam	Ventricular	(G-038F, SRT, "Cardiovascular Orifice	
	Outflow Tract	Diameter")	
	Right		
RVOT Area	Ventricular	(G-038E, SRT, "Cardiovascular Orifice Area")	
	Outflow Tract		
	Right		
PVA(Vmax)	Ventricular	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Continuity
	Outflow Tract		Equation by Peak Velocity
	Right		
TVA(Vmax)	Ventricular	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Continuity
,	Outflow Tract		Equation by Peak Velocity
	Right		
Vmax	Ventricular	(11726-7, LN, "Peak Velocity")	
	Outflow Tract	(= 5 ., = 1,	
Vmean	Right	(20352-1, LN, "Mean Velocity")	
viileali	Nigiti	(20002-1, LIN, IVICALL VEIDULLY)	

	Ventricular			
	Outflow Tract			
	Right			
Pgmax	Ventricular	(20247-3, LN, "Peak Gradient")		
	Outflow Tract			
	Right			
Pgmean	Ventricular	(20256-4, LN, "Mean Gradient")		
	Outflow Tract			
	Right			
VTI	Ventricular	(20354-7, LN, "Velocity Time Integral")		
	Outflow Tract			
	Right			
SV	Ventricular	(F-32120, SRT, "Stroke Volume")		
	Outflow Tract			
	Right			
СО	Ventricular	(F-32100, SRT, "Cardiac Output")		
	Outflow Tract			
AV Cusp	Aortic Valve	(17996-0, LN, "Aortic Valve Cusp	Image Mode = 2D mode	
711 3435	7.01.00 70.170	Separation")		
AV Diam	Aortic Valve	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode	
7.1. 2.0		Diameter")		
AVA Planimetry	Aortic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Image Mode = 2D mode	
, , , , , , , , , , , , , , , , , , , ,		(0 0002, 010, 000000000000000000000000000	Measurement Method = Planimetry	
AVA(Vmax)	Aortic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Continuity	
71071(111027)	7 tortio varvo	(Cocce, Civi, Caralevaccara Cimico, aca)	Equation by Peak Velocity	
AVA(VTI)	Aortic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Continuity	
, (* ,		(0 0002, 010, 000000000000000000000000000	Equation by Velocity Time Integral	
AV Vmax	Aortic Valve	(11726-7, LN, "Peak Velocity")		
AV Vmean	Aortic Valve	(20352-1, LN, "Mean Velocity")		
AV PGmax	Aortic Valve	(20247-3, LN, "Peak Gradient")		
AV PGmean	Aortic Valve	(20256-4, LN, "Mean Gradient")		
AV PHT	Aortic Valve	(20280-4, LN, "Pressure Half-Time")		
AV VTI	Aortic Valve	(20354-7, LN, "Velocity Time Integral")		
AV AccT	Aortic Valve	(20168-1, LN, "Acceleration Time")		
AV DecT	Aortic Valve	(20217-6, LN, "Deceleration Time")		

AV Dec	Aortic Valve	(20216-8, LN, "Deceleration Slope"	
AV EjectT	Aortic Valve	(18041-4, LN, Aortic Valve Ejection Time)	
A) / A coT/FT	Aortic Valve	(G-0382, SRT, "Ratio of Aortic Valve	
AV AccT/ET	Aortic valve	Acceleration Time to Ejection Time")	
AD VO Diam	A ti - \ / - l	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode
AR VC Diam	Aortic Valve	Diameter")	Flow Direction = Regurgitant Flow
AR Vmax	Aortic Valve	(11726-7, LN, "Peak Velocity")	
AR Vmean	Aortic Valve	(20352-1, LN, "Mean Velocity")	
AR PGmax	Aortic Valve	(20247-3, LN, "Peak Gradient")	
AR PGmean	Aortic Valve	(20256-4, LN, "Mean Gradient")	
AR PHT	Aortic Valve	(20280-4, LN, "Pressure Half-Time")	
AR VTI	Aortic Valve	(20354-7, LN, "Velocity Time Integral")	
AR AccT	Aortic Valve	(20168-1, LN, "Acceleration Time")	
AR DecT	Aortic Valve	(20217-6, LN, "Deceleration Time")	
AR Dec	Aortic Valve	(20216-8, LN, "Deceleration Slope"	
		(0.000F.0DT.110	Image Mode = 2D mode
AR PISA Rad.	Aortic Valve	(G-038F, SRT, "Cardiovascular Orifice Diameter")	Measurement Method = Proximal
			Isovelocity Surface Area
AD Flow Data	Aortic Valve	(34141-2, LN, "Peak Instantaneous Flow	
AR Flow Rate		Rate")	
AR ERO	Aortic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Proximal
AR ERO			Isovelocity Surface Area
AR Volume		(33878-0, LN, "Volume Flow")	Measurement Method = Proximal
AR volume	Aortic Valve		Isovelocity Surface Area
AR Fraction	Aortic Valve	(G-0390-4, SRT, "Regurgitant Fraction")	
AV IVIDT	A artia Valva	(18071-1, LN, "Left Ventricular Isovolumic	
AV IVRT	Aortic Valve	Relaxation Time")	
AV IVOT	A artia Valva	(G-037E, SRT, "Left Ventricular Isovolumic	
AV IVCT	Aortic Valve	Contraction Time")	
Tailaday	A antia \ /alva	(G-037F, SRT, "Left Ventricular Index of	
Tei Index	Aortic Valve	Myocardial Performance")	
E E Slone	Mitrol Volvo	(18040-6, LN, "Mitral Valve E-F Slope by M-	
E-F Slope	Mitral Valve	Mode")	
EPSS	Mitral Valve	(18036-4, LN, "Mitral Valve EPSS, E wave")	
MV Ann Diam	Mitral Valve	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode

		Diameter")	Finding Site = Mitral Annulus
			Flow Direction = Antegrade Flow
5: 4	N. 137.1	(G-038F, SRT, "Cardiovascular Orifice	
Diam1	Mitral Valve	Diameter")	Image Mode = 2D mode
Diam2	Mitral Valve	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode
Diamz	iviitiai vaive	Diameter")	illiage wode – 2D mode
MVA Planimetry	Mitral Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Planimetry
MVArea	Mitral Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Image Mode = 2D mode
MVA(Vmax)	Mitral Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Continuity
WWA(VIIIax)	wiitai vaive	(G-030E, SKT, Cardiovascular Office Area)	Equation by Peak Velocity
MVA(PHT)	Mitral Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Flow Direction = Antegrade Flow
WWA(I III)	Williai Vaive	(G-030E, SIXT, Cardiovascular Office Area)	Measurement Method = Area by PHT
MVA(VTI)	Mitral Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Continuity
WVA(VII)	Williai Vaive	(G-030E, SIXT, Cardiovascular Office Area)	Equation by Velocity Time Integral
MV Peak A	Mitral Valve	(17978-8, LN, "Mitral Valve A-Wave Peak	
IVIV FEAK A		Velocity")	
MV Peak E	Mitral Valve	(18037-2, LN, "Mitral Valve E-Wave Peak	
WIV I Can L		Velocity")	
MV E/A	Mitral Valve	(18038-0, LN, "Mitral Valve E to A Ratio")	
MV Vmax	Mitral Valve	(11726-7, LN, "Peak Velocity")	Flow Direction = Antegrade Flow
MV Vmean	Mitral Valve	(20352-1, LN, "Mean Velocity")	Flow Direction = Antegrade Flow
MV PGmax	Mitral Valve	(18057-0, LN, "Mitral Valve Diastolic Peak	Flow Direction = Antegrade Flow
WV 1 GIIIAX		Instantaneous Gradient")	Tiow Direction - Antegrade Flow
MV PGmean	Mitral Valve	(20256-4, LN, "Mean Gradient")	Flow Direction = Antegrade Flow
MV PHT	Mitral Valve	(20280-4, LN, "Pressure Half-Time")	Flow Direction = Antegrade Flow
MV VTI	Mitral Valve	(20354-7, LN, "Velocity Time Integral")	Flow Direction = Antegrade Flow
MV AccT	Mitral Valve	(20168-1, LN, "Acceleration Time")	Flow Direction = Antegrade Flow
MV DecT	Mitral Valve	(20217-6, LN, "Deceleration Time")	Flow Direction = Antegrade Flow
MV Dec	Mitral Valve	(20216-8, LN, "Deceleration Slope"	Flow Direction = Antegrade Flow
MV AccT/DecT	Mitral Valve	(G-0386, SRT, "Mitral Valve AT/DT Ratio")	
MA / A D	Mitrol \/alva	(G-0385, SRT, "Mitral Valve A-Wave	
MV A Dur	Mitral Valve	Duration")	
SV	Mitral Valve	(F-32120, SRT, "Stroke Volume")	
СО	Mitral Valve	(F-32100, SRT, "Cardiac Output")	
MV IVRT	Mitral Valve	(18071-1, LN, "Left Ventricular Isovolumic	

		Relaxation Time")	
MAY IN COT	NATIONAL AND A	(G-037E, SRT, "Left Ventricular Isovolumic	
MV IVCT	Mitral Valve	Contraction Time")	
Tributa	NATIONAL AND A	(G-037F, SRT, "Left Ventricular Index of	
Tei Index	Mitral Valve	Myocardial Performance ")	
MR Vmax	Mitral Valve	(11726-7, LN, "Peak Velocity")	Flow Direction = Regurgitant Flow
MR Vmean	Mitral Valve	(20352-1, LN, "Mean Velocity")	Flow Direction = Regurgitant Flow
MR PGmax	Mitral Valve	(20247-3, LN, "Peak Gradient")	Flow Direction = Regurgitant Flow
MR PGmean	Mitral Valve	(20256-4, LN, Mean Gradient")	Flow Direction = Regurgitant Flow
MR VTI	Mitral Valve	(20354-7, LN, "Velocity Time Integral")	Flow Direction = Regurgitant Flow
NAD do /db	NAHIN	(18035-6, LN, "Mitral Regurgitation dP/dt	
MR dp/dt	Mitral Valve	derived from Mitral Regurgitation velocity")	
		/C 020E CDT "Cordio coco des Orifica	Image Mode = 2D mode
MR PISA Rad.	Mitral Valve	(G-038F, SRT, "Cardiovascular Orifice	Measurement Method = Proximal
		Diameter")	Isovelocity Surface Area
MR Flow Rate	Mitral Valve	(34141-2, LN, "Peak Instantaneous Flow	
WIK Flow Kate		Rate")	
MR ERO	Mitral Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Proximal
WINCERO			Isovelocity Surface Area
MR Volume	Mitral Valve	(33878-0, LN, "Volume Flow")	Measurement Method = Proximal
WIIV VOIGITIE	William Valve	(coord o, Ett, voiding Flow)	Isovelocity Surface Area
MR Fraction	Mitral Valve	(G-0390, SRT, "Regurgitant Fraction")	
TV Ann Diam	Tricuspid Valve	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode
I V Allii Diaili	Tricuspia vaive	Diameter")	image Mode = 2D mode
TV Diam1	Tricuspid Valve	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode
I V Diaiii i	Tricuspia vaive	Diameter")	image wode = 25 mode
TV Diam2	Tricuspid Valve	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode
TV DIGITIZ	Tricuspia vaive	Diameter")	image wode = 25 mode
			Image Mode = 2D mode
TVA Planimetry	Tricuspid Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	
			Measurement Method = Planimetry
TV Area	Tricuspid Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Image Mode = 2D mode
TVA(VTI)	Tricuspid Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Continuity
. •, .(•11)	modopia varvo	(2 2002, 0.1., Surdiovassulai Office/vea)	Equation by Velocity Time Integral
TV Vmax	Tricuspid Valve	(11726-7, LN, "Peak Velocity")	Flow Direction = Antegrade Flow

TV Peak E	Tricuspid Valve	(18031-5, LN, "Tricuspid Valve E Wave Peak Velocity")	Flow Direction = Antegrade Flow	
TV Peak A	Tricuspid Valve	(18030-7, LN, "Tricuspid Valve A Wave Peak Velocity")	Flow Direction = Antegrade Flow	
TV E/A	Tricuspid Valve	(18039-8, LN, "Tricuspid Valve E to A Ratio")	Flow Direction = Antegrade Flow	
TV Vmean	Tricuspid Valve	(20352-1, LN, "Mean Velocity")	Flow Direction = Antegrade Flow	
TV PGmax	Tricuspid Valve	(20247-3, LN, "Peak Gradient")	Flow Direction = Antegrade Flow	
TV PGmean	Tricuspid Valve	(20256-4, LN, "Mean Gradient")	Flow Direction = Antegrade Flow	
TV PHT	TV PHT Tricuspid Valve	(20280-4, LN, "Pressure Half-Time")	Flow Direction = Antegrade Flow	
TV VTI	Tricuspid Valve	(20354-7, LN, "Velocity Time Integral")	Flow Direction = Antegrade Flow	
TV AccT	Tricuspid Valve	(20168-1, LN, "Acceleration Time")	Flow Direction = Antegrade Flow	
TV DecT	Tricuspid Valve	(20217-6, LN, "Deceleration Time")	Flow Direction = Antegrade Flow	
TV Dec	Tricuspid Valve	(20216-8, LN, "Deceleration Slope"	Flow Direction = Antegrade Flow	
TV SV	Tricuspid Valve	(F-32120, SRT, "Stroke Volume")		
TV CO	Tricuspid Valve	(F-32100, SRT, "Cardiac Output")		
0.1.77.40	Tricuspid Valve	(20296-0, LN, "Time from Q wave to		
Q to TV Open		Tricuspid Valve Opens")		
TR Vmax	Tricuspid Valve	(11726-7, LN, "Peak Velocity")	Flow Direction = Regurgitant Flow	
TR PGmax	Tricuspid Valve	(20247-3, LN, "Peak Gradient")	Flow Direction = Regurgitant Flow	
TR Vmean	Tricuspid Valve	(20352-1, LN, "Mean Velocity")	Flow Direction = Regurgitant Flow	
TR PGmean	Tricuspid Valve	(20256-4, LN, "Mean Gradient")	Flow Direction = Regurgitant Flow	
TR VTI	Tricuspid Valve	(20354-7, LN, "Velocity Time Integral")	Flow Direction = Regurgitant Flow	
RV Systolic	Triange id Malera	(G-0380, SRT, "Right Ventricular Peak		
Pressure	Tricuspid Valve	Systolic Pressure")		
TD 45/4	Triange id Malera	(18034-9, LN, "Tricuspid Regurgitation		
TR dp/dt	Tricuspid Valve	dP/dt")		
		/C 020E CDT "Condinues vilor Orifica	Image Mode = 2D mode	
TR PISA Rad.	Tricuspid Valve	(G-038F, SRT, "Cardiovascular Orifice	Measurement Method = Proximal	
		Diameter")	Isovelocity Surface Area	
TR Flow Rate	Tricuspid Valve	(34141-2, LN, "Peak Instantaneous Flow Rate")		
	—	(O 2225 OFT #G ::	Measurement Method = Proximal	
TR ERO	Tricuspid Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Isovelocity Surface Area	
			Measurement Method = Proximal	
TR Volume	Tricuspid Valve	(33878-0, LN, "Volume Flow")	Isovelocity Surface Area	

TR Fraction	Tricuspid Valve	(G-0390, SRT, "Regurgitant Fraction")	
PV Ann Diam	Pulmonic Valve	(G-038F, SRT, "Cardiovascular Orifice	
PV AIIII DIAIII	Pulmonic valve	Diameter")	
PV Area	Pulmonic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	
PVA Planimetry	Pulmonic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Planimetry
PV Vmax	Pulmonic Valve	(11726-7, LN, "Peak Velocity")	Flow Direction = Antegrade Flow
PV Vmean	Pulmonic Valve	(20352-1, LN, "Mean Velocity")	Flow Direction = Antegrade Flow
PV Pgmax	Pulmonic Valve	(20247-3, LN, "Peak Gradient")	Flow Direction = Antegrade Flow
PV Pgmean	Pulmonic Valve	(20256-4, LN, "Mean Gradient")	Flow Direction = Antegrade Flow
PV PHT	Pulmonic Valve	(20280-4, LN, "Pressure Half-Time")	Flow Direction = Antegrade Flow
PV VTI	Pulmonic Valve	(20354-7, LN, "Velocity Time Integral")	Flow Direction = Antegrade Flow
DVA (VTI)	Dulmania Value	(C 020E CDT "Cordio recorder Orifice Area")	Measurement Method = Continuity
PVA(VTI)	Pulmonic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Equation by Velocity Time Integral
PV AccT	Pulmonic Valve	(20168-1, LN, "Acceleration Time")	Flow Direction = Antegrade Flow
PV DecT	Pulmonic Valve	(20217-6, LN, "Deceleration Time")	Flow Direction = Antegrade Flow
PV Dec	Pulmonic Valve	(20216-8, LN, "Deceleration Slope"	Flow Direction = Antegrade Flow
DV ET	Pulmonic Valve	(18042-2, LN, "Pulmonic Valve Ejection	
PV ET		Time")	
DV AssT/ET	Pulmonic Valve	(G-0388, SRT, "Ratio of Pulmonic Valve	
PV AccT/ET		Acceleration Time to Ejection Time")	
O to DV Class	Pulmonic Valve	(20295-2, LN, "Time from Q wave to	
Q to PV Close	Pulmonic valve	Pulmonic Valve Closes")	
PR VC Diam	n Pulmonic Valve		Image Mode = 2D mode
PR VC Diaili	Pulmonic valve		Flow Direction = Regurgitant Flow
PR Vmax	Pulmonic Valve	(11726-7, LN, "Peak Velocity")	Flow Direction = Regurgitant Flow
MDA Vmov	Pulmonic Valve	(G-038A, SRT, "Main Pulmonary Artery	
MPA Vmax	Pulmonic valve	Velocity")	
PR Vmean	Pulmonic Valve	(20352-1, LN, "Mean Velocity")	Flow Direction = Regurgitant Flow
PR Pgmax	Pulmonic Valve	(20247-3, LN, "Peak Gradient")	Flow Direction = Regurgitant Flow
PR Pgmean	Pulmonic Valve	(20256-4, LN, "Mean Gradient")	Flow Direction = Regurgitant Flow
PV PHT	Pulmonic Valve	(20280-4, LN, "Pressure Half-Time")	Flow Direction = Regurgitant Flow
PR AccT	Pulmonic Valve	(20168-1, LN, "Acceleration Time")	Flow Direction = Regurgitant Flow
PR DecT	Pulmonic Valve	(20217-6, LN, "Deceleration Time")	Flow Direction = Regurgitant Flow
PR Dec	Pulmonic Valve	(20216-8, LN, "Deceleration Slope"	Flow Direction = Regurgitant Flow
Tei Index	Left Ventricle	(G-037F, SRT, "Left Ventricular Index of	

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		Myocardial Performance")	
		(18071-1, LN, "Left Ventricular Isovolumic	
MV IVRT	Left Ventricle	Relaxation Time")	
AD (D (O T	. 6.77	(G-037E, SRT, "Left Ventricular Isovolumic	
MV IVCT	Left Ventricle	Contraction Time")	
	Pulmonary	(20450 4 LN "Dulmonony)/oin Systolia Dook	
Sys Vel.	Venous	(29450-4, LN, "Pulmonary Vein Systolic Peak Velocity")	
	Structure	velocity)	
	Pulmonary	(29451-2, LN, "Pulmonary Vein Diastolic	
Dias Vel.	Venous	Peak Velocity")	
	Structure	reak velocity)	
	Pulmonary	(29452-0, LN, "Pulmonary Vein Systolic to	
Sys/Dias	Venous	Diastolic Ratio")	
	Structure	Diagonal Nation)	
	Pulmonary	(29453-8, LN, "Pulmonary Vein Atrial	
A. Rev Vel.	Venous	Contraction Reversal Peak Velocity")	
	Structure	,	
	Pulmonary	(G-038B, SRT, "Pulmonary Vein A-Wave Duration")	
A. Rev Dur.	Venous		
	Structure		
Sys Vel.	Hepatic Vein	(29471-0, LN, "Hepatic Vein Systolic Peak	
,		Velocity")	
Dias Vel.	Hepatic Vein	(29472-8, LN, "Hepatic Vein Diastolic Peak	
		Velocity")	
Sys/Dias	Hepatic Vein	(29473-6, LN, "Hepatic Vein Systolic to	
		Diastolic Ratio")	
A. Rev Vel.	Hepatic Vein	(29474-4, LN, "Hepatic Vein Atrial	
		Contraction Reversal Peak Velocity")	
Peak E'	Left Ventricle	(G-037A, SRT, "Left Ventricular Peak Early	
		Diastolic Tissue Velocity")	
MV E/E'	Left Ventricle	(G-037B, SRT, "Ratio of MV Peak Velocity to	
		LV Peak Tissue Velocity E-Wave")	
Peak A'	Left Ventricle	(G-037C, SRT, "LV Peak Diastolic Tissue	
		Velocity During Atrial Systole")	
Peak S	Left Ventricle	(G-037D, SRT, "Left Ventricular Peak Systolic	
		Tissue Velocity")	

LVOT Diam(S)	Left Ventricular	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode
	Outflow Tract	Diameter")	
RVOT Diam(P)	Left Ventricular	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode
(1)	Outflow Tract	Diameter")	image wode – 25 mode
Svo V/TI/S)	Left Ventricular	(20254.7. LN "Volcoity Time Integral")	
Sys. VTI(S)	Outflow Tract	(20354-7, LN, "Velocity Time Integral")	
Distance A/TI/D)	Left Ventricular	(20254.7. I.N. "Volceit, Time Interval")	
Pulm. VTI(P)	Outflow Tract	(20354-7, LN, "Velocity Time Integral")	
0 . 01/(0)	Left Ventricular	(F.00400, OPT "O(1) V(1, 1)	
Sys. SV(S)	Outflow Tract	(F-32120, SRT, "Stroke Volume")	
Sys. SI(S)	Left Ventricular	(F-00078, SRT, "Stroke Index")	
3ys. 31(3)	Outflow Tract	(1-00076, SK1, Slicke lildex)	
Sva CO(S)	Left Ventricular	(F 22100 CDT "Cording Output")	
Sys. CO(S)	Outflow Tract	(F-32100, SRT, "Cardiac Output")	
Dulm CV//DV	Left Ventricular	(F 22420, CDT "Otroles Volumes")	
Pulm. SV(P)	Outflow Tract	(F-32120, SRT, "Stroke Volume")	
Pulm. SI(P)	Left Ventricular	(F.00070, ODT !!Otralia la dau!)	
	Outflow Tract	(F-00078, SRT, "Stroke Index")	
Dulm CO(D)	Left Ventricular	(F 22400 SDT "Cording Output")	
Pulm. CO(P)	Outflow Tract	(F-32100, SRT, "Cardiac Output")	

9.4 UROLOGY STRUCTURED REPORT TEMPLATE

9.4.1 Urology Ultrasound Report Templates (TID SM99400)

Table 9.4-1
Urology Ultrasound Report Procedure Templates

No	Rel With Parent	VT	Concept Name	Comments	RS80A Label
1		CONTAINER	EV (99400, MDSN, "Urology Ultrasound Report")		
2	HAS OBS CONTEXT	INCLUDE	DTID (1001) Observation Context		
3	CONTAINS	INCLUDE	DTID (5001) Patient Characteristics		
4	CONTAINS	INCLUDE	DTID (5016) LWH Volume Group	\$GroupName = EV (99017-0, MDSN, "WG Prostate Volume")	WG Prostate Vol.
5	CONTAINS	INCLUDE	DTID (5016) LWH Volume Group	\$GroupName = EV (99017-1, MDSN, "T-Zone Volume")	T-Zone Vol.
6	CONTAINS	INCLUDE	DTID (5016) LWH Volume Group	\$GroupName = EV (99017-2, MDSN, " Bladder Volume")	Bladder Vol.
7	CONTAINS	INCLUDE	DTID (SM99401) Residual Volume Group	\$GroupName = EV (99017-3, MDSN, " Residual Volume")	Residual Vol.
8	CONTAINS	INCLUDE	DTID (5016) LWH Volume Group	\$GroupName = EV (99017-6, MDSN, " Right Renal Volume")	Rt. Renal Vol.
9	CONTAINS	INCLUDE	DTID (5016) LWH Volume Group	\$GroupName = EV (99017-7, MDSN, " Left Renal Volume")	Lt. Renal Vol.
10	CONTAINS	INCLUDE	DTID (SM99402) PSA Measurement Group	\$GroupName = EV (99017-9, MDSN, "Prostate Specific Antigen")	PSA
11	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group	\$AnatomyGroup = EV (99017- 8,MDSN, "General Urology Measurement"	General

9.4.1.1 Observation Context (TID 1001)

Table 9.4-2
OBSERVATION CONTEXT IN UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
D-1	HAS OBS CONTEXT	CODE	(121005, DCM, "Observer	(121006, DCM,	
D-1	TIAS OBS CONTEXT	CODE	Type")	"Person")	
D-2	HAS OBS CONTEXT	PNAME	(121008, DCM, "Person		Ref. Physician
D-2	TIAS OBS CONTEXT	INAME	Observer Name")		IXEL I HYSICIAH
D-3	HAS OBS CONTEXT	CODE	(121024, DCM, "Subject Class")	(121025 ,DCM,"Patient")	
D-4	HAS OBS CONTEXT	PNAME	(121029,DCM, "Subject Name")		Last Name,
D- 4	TIAS OBS CONTEXT	FINAIVIL	(121023,DOW, Gubject Name)		First Name
D-5	HAS OBS CONTEXT	DATE	(121031,DCM, "Subject Birth		BirthDate
D-3	TIAS OBS CONTEXT	DATE	Date")		DirtiiDate
				(M, DCM, "Male")	Gender
D-6	HAS OBS CONTEXT	CODE	(121032,DCM, "Subject Sex")	(F, DCM, "Female")	
				(U, DCM, "Unknown sex")	

9.4.1.2 Patient Characteristics (TID 5001)

Table 9.4-3
PATIENT CHARACTERISTICS IN UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
D 7	CONTAINS	ONTAINS CONTAINTER	(121118,DCM "Patient		
D-1	D-7 CONTAINS		Characteristics")		
D-7-1	CONTAINS	NUM	(8302-2, LN, "Patient Height")	(cm, UCUM, "centimeter")	Height
D-7-1	CONTAINS	INOIVI	(6502-2, LIN, Fallent Height)	(mm, UCUM, "millimeter")	Height
D-7-2	CONTAINS	NUM	(29463-7, LN, "Patient Weight")	(kg, UCUM, "kilograms")	Weight

9.4.1.3 LHW Volume Group (TID 5016)

Table 9.4-4
LHW VOLUME GROUP IN UROLOGY SR

REL	VT	Concept Name	Unit / CODE Value	RS80A Label
		oonoopt mamo	OTHER GODE VALUE	1100071 Edboi

D-8		CONTAINER	\$GroupName		
D-8-1	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = \$Volume	Vol.
				\$Measurement = \$Length	
D-8-2	CONTAINS	INCLUDE	DTID (300) Measurement	\$Derivation = DCID (3627)	L
				Measurement Type	
				\$Measurement = \$Width	
D-8-3	CONTAINS	INCLUDE	DTID (300) Measurement	\$Derivation = DCID (3627)	w
				Measurement Type	
				\$Measurement = \$Height	
D-8-4	CONTAINS	INCLUDE	DTID (300) Measurement	\$Derivation = DCID (3627)	Н
				Measurement Type	

9.4.1.4 Residual Volume Group (TID SM99401)

Table 9.4-5
Residual Volume Group in UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
D-9		CONTAINER	\$GroupName		
D-9-1	CONTAINS	INCLUDE DTID (5016) LWH Volume Group	DTID (5016) LWH Volume Group	\$GroupName = EV (99017-4,	Pre
D-9-1	CONTAINS			MDSN, "Pre Void Volume")	
D 0 2	CONTAINS	CONTAINS INCLUDE	DTID (5016) LWH Volume Group	\$GroupName = EV (99017-5,	Post
D-9-2				MDSN, "Post Void Volume")	
D 0 3	CONTAINS	CONTAINS INCLUDE	DTID (5016) LWH Volume Group	\$GroupName = EV (99017-12,	Void
D-9-3	CONTAINS			MDSN, "Void Volume")	Void

9.4.1.5 PSA Measurement Group (TID SM99402)

Table 9.4-6
PSA Measurement Group in UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A	
		KLL	VI	Concept Name	Onit / CODE value	Label
	D-10		CONTAINER	\$GroupName		

D-10-1	CONTAINS	NUM	(99017-10, MDSN, "Predicted PSA by WG")	PREDPSA
D-10-2	CONTAINS	NUM	(99017-11, MDSN, "Predicted PSA by T-Zone")	TZPSA

9.4.1.6 Vascular Measurement Group (TID 5104)

Table 9.4-7
Vascular Measurement Group in UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
D-11		CONTAINED	\$AnatomyGroup	\$AnatomyGroup=MDSN\99017-	General
		CONTAINER		8\General Urology Measurement	General
	CONTAINS	NTAINS INCLUDE	DTID (300) Measurement	\$Measurement = DCID (12119)	
D 44.4				Vascular Ultrasound Property	
D-11-1				\$Derivation = DCID (3627)	
				Measurement Type	

9.4.2 Urology Measurement and Calculation used in Urology SR

Table 9.4-8
Urology Measurement and Calculation Items

RS80A Label	DICOM SR Concept Name (CSD\CV\CM)
WG Prostate L	SRT\G-A22A\Length
WG Prostate H	DCM\121207\Height
WG Prostate W	SRT\G-A220\Width
Vol.	SRT\G-D705\Volume
T-Zone L	SRT\G-A22A\Length
T-Zone H	DCM\121207\Height
T-Zone W	SRT\G-A220\Width
Vol.	SRT\G-D705\Volume
Bladder L	SRT\G-A22A\Length
Bladder H	DCM\121207\Height
Bladder W	SRT\G-A220\Width
Vol.	SRT\G-D705\Volume
Pre L	SRT\G-A22A\Length
Pre H	DCM\121207\Height
Pre W	SRT\G-A220\Width
Pre Vol.	SRT\G-D705\Volume
Post L	SRT\G-A22A\Length
Post H	DCM\121207\Height
Post W	SRT\G-A220\Width
Post Vol.	SRT\G-D705\Volume
Void Vol.	SRT\G-D705\Volume
Rt. Renal L	SRT\G-A22A\Length
Rt. Renal H	DCM\121207\Height
Rt. Renal W	SRT\G-A220\Width
Vol.	SRT\G-D705\Volume
Rt. Renal Pelvis	MDSN\99005-13\Right Pelvis
Lt. Renal L	SRT\G-A22A\Length
Lt. Renal H	DCM\121207\Height
Lt. Renal W	SRT\G-A220\Width

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Vol.	SRT\G-D705\Volume
Lt. Renal Pelvis	MDSN\99005-14\Left Pelvis
PSA	MDSN\99017-9\Prostate Specific Antigen
PREDPSA	MDSN\99017-10\Predicted PSA by WG
TZPSA	MDSN\99017-11\Predicted PSA by T-Zone
General	MDSN\99017-8\General Urology Measurement
PSV	LN\11726-7\Peak Systolic Velocity
EDV	LN\11653-3\End Diastolic Velocity
TAPV	LN\11692-1\Time averaged peak velocity
TAMV	LN\20352-1\Time averaged mean velocity
PGmax	LN\20247-3\Peak Gradient
PGmean	LN\20256-4\Mean Gradient
S/D	LN\12144-2\Systolic to Diastolic Velocity Ratio
D/S	MDSN\99200-01\Diastolic to Systolic Velocity Ratio
RI	LN\12023-8\Resistivity Index
PI	LN\12008-9\Pulsatility Index
%StA	SRT\R-101BA\Lumen Area Stenosis
%StA Outer Area	SRT\G-0366\Vessel lumen cross-sectional area
%StA Inner Area	SRT\R-1025D\Vessel Intimal Cross-Sectional Area
%StD	SRT\R-101BB\Lumen Diameter Stenosis
%StD Outer Dist.	SRT\G-0364\Vessel lumen diameter
%StD Inner Dist.	SRT\R-1025C\Vessel Intimal Diameter
Vesl. Area	MDSN\99200-02\Vessel Area
Vol. Flow(A)	SRT\G-0365\Vessel outside diameter
Vesl. Dist	LN\33878-0\Volume flow
Vol. Flow(D)	LN\33878-0\Volume flow

9.5 SMALL PARTS STRUCTURED REPORT TEMPLATE

9.5.1 SmallParts Ultrasound Report Templates (TID SM99500)

Table 9.5-1
SmallParts Ultrasound Report Procedure Templates

No	Rel With Parent	VT	Concept Name	Comments	RS80A Label
		CONTAINED	EV (SM99500, MDSN, "SmallParts		
1		CONTAINER	Ultrasound Report")		
2	HAS OBS	INCLUDE	DTID (4004) Observation Contact		
2	2 CONTEXT INCLUDE	INCLUDE	DTID (1001) Observation Context		
3	CONTAINS	INCLUDE	DTID (5001) Patient Characteristics		
4	CONTAINS	NS INCLUDE	DTID (SM99501) Small Parts Measurement	\$GroupName = EV (T-B6000,	
4	CONTAINS		Group	SRT, "Thyroid")	
8	CONTAINS	INCLUDE	DTID (SM99501) Small Parts Measurement	\$GroupName = EV (T-94000,	
0	CONTAINS	INCLUDE	Group	SRT, "Testis")	
9	CONTAINS	INCLUDE	DTID (SM99501) Small Parts Measurement	\$GroupName = EV (G-A139,	
9	CONTAINS	INCLUDE	Group	SRT, "Superficial")	

9.5.1.1 Observation Context (TID 1001)

Table 9.5-2
OBSERVATION CONTEXT IN UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
E-1	HAS OBS CONTEXT	CODE	(121005, DCM, "Observer	(121006, DCM, "Person")	
L-1	TIAS OBS CONTEXT	CODE	Type")	(121000, DCIVI, FEISOII)	
E 2	E-2 HAS OBS CONTEXT P	PNAME	(121008, DCM, "Person		Ref. Physician
E-Z		FINAIVIE	Observer Name")		INGI. I HYSICIAH
E-3	HAS OBS CONTEXT	CODE	(121024, DCM, "Subject Class")	(121025 ,DCM,"Patient")	
E-4	HAS OBS CONTEXT	PNAME	(121029,DCM, "Subject Name")		Last Name,
E-4	HAS OBS CONTEXT	FINAIVIE	(121029,DCIVI, Subject Name)		First Name
E-5	HAS OBS CONTEXT	DATE	(121031,DCM, "Subject Birth		BirthDate

			Date")		
				(M, DCM, "Male")	Gender
E-6	HAS OBS CONTEXT	CODE	(121032,DCM, "Subject Sex")	(F, DCM, "Female")	
				(U, DCM, "Unknown sex")	

9.5.1.2 Patient Characteristics (TID 5001)

Table 9.5-3
PATIENT CHARACTERISTICS IN SMALL PARTS SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
E-7 C	CONTAINS	AINS CONTAINTER	(121118,DCM "Patient		
			Characteristics")		
E-7-1	CONTAINS	CONTAINS NUM	(8302-2, LN, "Patient Height")	(cm, UCUM, "centimeter")	Height
		NOW		(mm, UCUM, "millimeter")	
E-7-2	CONTAINS	NUM	(29463-7, LN, "Patient Weight")	(kg, UCUM, "kilograms")	Weight

9.5.1.3 Small Parts Measruement Group (TID SM99501)

Table 9.5-4
Small Parts Measruement Group in SMALL PARTS SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
E-8	CONTAINS	CONTAINTER	\$GroupName		
E-8-1	HAS CONCEPT MOD	CODE	(G-C171, SRT, "Laterality")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	
E-8-2	CONTAINS	INCLUDE	DTID (SM99102) Mass Measurement Group		Mass
E-8-3	CONTAINS	INCLUDE	DTID (5016) LWH Volume Group	\$GroupName = EV (99100-6, MDSN, "Thyroid Volume") \$GroupName = EV (99100-9, MDSN, "Testis Volume") \$GroupName = EV (99100-11,	Vol.

				MDSN, "Superficial Volume")	
E-8-4	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group	\$AnatomyGroup = EV (99100-7,	Flow
				MDSN, "Thyroid Flow")	
				\$AnatomyGroup = EV(99100-10,	
				MDSN, "Testis Flow")	
				\$AnatomyGroup = EV (99100-	
				12, MDSN, "Superficial Flow")	

9.5.1.4 Mass Measruement Group (TID SM99102)

Table 9.5-5
Mass Measruement Group in SMALL PARTS SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
E-8-2	CONTAINS	CONTAINTER	(M-03000, SRT, "Mass")		
E-8-2-1	HAS OBS CONTEXT	TEXT	(12510, DCM, "Identifier")		"1", "2" "5"
E-8-2-2	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = \$Volume	Vol.
				\$Measurement = \$Length	
E-8-2-3	CONTAINS	INCLUDE	DTID (300) Measurement	\$Derivation = DCID (3627) Measurement Type	L
				\$Measurement = \$Depth	
E-8-2-4	CONTAINS	INCLUDE	DTID (300) Measurement	\$Derivation = DCID (3627) Measurement Type	D
	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement =\$Width	W
E-8-2-5				\$Derivation = DCID (3627) Measurement Type	

9.5.1.5 LHW Volume Group (TID 5016)

Table 9.5-6

LHW VOLUME GROUP IN SMALL PARTS SR

REL VT Concept Name Unit / CODE Value RS80A

E-8-3		CONTAINER	\$GroupName		
E-8-3-1	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = \$Volume	Vol.
E-8-3-2	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = \$Length	L
				\$Derivation = DCID (3627)	
				Measurement Type	
				\$Measurement = \$Width	
E-8-3-3	CONTAINS	INCLUDE	DTID (300) Measurement	\$Derivation = DCID (3627)	w
				Measurement Type	
				\$Measurement = \$Height	
E-8-3-4	CONTAINS	INCLUDE	DTID (300) Measurement	\$Derivation = DCID (3627)	н
				Measurement Type	

9.5.1.6 Vascular Measurement Group (TID 5104)

Table 9.5-7
Vascular Measurement Group in SMALL PARTS SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
E-8-4		CONTAINER	\$AnatomyGroup		Flow
E-8-4-1	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = DCID (12119)	
				Vascular Ultrasound Property	
				\$Derivation = DCID (3627)	
				Measurement Type	

9.5.2 Small Parts Measurement and Calculation used in Small Parts SR

9.5.2.1 Thyroid Measurement and Calculation used in Small Parts SR

Table 9.5-8
Thyroid Measurement and Calculation Items

RS80A Label	DICOM SR Concept Name (CDS CV CM)
Thyroid	SRT\T-B6000\Thyroid
Mass1	SRT\M-03000\Mass
Mass1 L	SRT\G-A22A\Length
Mass1 D	DCM\G-D785\Depth
Mass1 W	SRT\G-A220\Width
Mass1 Vol.	SRT\G-D705\Volume
Mass2	SRT\M-03000\Mass
Mass2 L	SRT\G-A22A\Length
Mass2 D	DCM\G-D785\Depth
Mass2 W	SRT\G-A220\Width
Mass2 Vol.	SRT\G-D705\Volume
Mass3	SRT\M-03000\Mass
Mass3 L	SRT\G-A22A\Length
Mass3 D	DCM\G-D785\Depth
Mass3 W	SRT\G-A220\Width
Mass3 Vol.	SRT\G-D705\Volume
Mass4	SRT\M-03000\Mass
Mass4 L	SRT\G-A22A\Length
Mass4 D	DCM\G-D785\Depth
Mass4 W	SRT\G-A220\Width
Mass4 Vol.	SRT\G-D705\Volume
Mass5	SRT\M-03000\Mass
Mass5 L	SRT\G-A22A\Length
Mass5 D	DCM\G-D785\Depth
Mass5 W	SRT\G-A220\Width
Mass5 Vol.	SRT\G-D705\Volume
Thyroid Vol.	MDSN\99100-6\Thyroid Volume

Thyroid L	SRT\G-A22A\Length
Thyroid H	DCM\121207\Height
Thyroid W	SRT\G-A220\Width
Thyroid Flow	MDSN\99100-7\Thyroid Flow
PSV	LN\11726-7\Peak Systolic Velocity
EDV	LN\11653-3\End Diastolic Velocity
TAPV	LN\11692-1\Time averaged peak velocity
TAMV	LN\20352-1\Time averaged mean velocity
PGmax	LN\20247-3\Peak Gradient
PGmean	LN\20256-4\Mean Gradient
S/D	LN\12144-2\Systolic to Diastolic Velocity Ratio
D/S	MDSN\99200-01\Diastolic to Systolic Velocity Ratio
RI	LN\12023-8\Resistivity Index
PI	LN\12008-9\Pulsatility Index
%StA	SRT\R-101BA\Lumen Area Stenosis
%StA Outer Area	SRT\G-0366\Vessel lumen cross-sectional area
%StA Inner Area	SRT\R-1025D\Vessel Intimal Cross-Sectional Area
%StD	SRT\R-101BB\Lumen Diameter Stenosis
%StD Outer Dist.	SRT\G-0364\Vessel lumen diameter
%StD Inner Dist.	SRT\R-1025C\Vessel Intimal Diameter
Vesl. Area	MDSN\99200-02\Vessel Area
Vol. Flow(A)	SRT\G-0365\Vessel outside diameter
Vesl. Dist	LN\33878-0\Volume flow
Vol. Flow(D)	LN\33878-0\Volume flow

9.5.2.2 Testis Measurement and Calculation used in Small Parts SR

Table 9.5-9
Testis Measurement and Calculation Items

RS80A Label	DICOM SR Concept Name (CDS CV CM)
Testis	SRT\T-94000\Testis
Mass1	SRT\M-03000\Mass
Mass1 L	SRT\G-A22A\Length
Mass1 D	DCM\G-D785\Depth

Mass1 W	SRT\G-A220\Width
Mass1 Vol.	SRT\G-D705\Volume
Mass2	SRT\M-03000\Mass
Mass2 L	SRT\G-A22A\Length
Mass2 D	DCM\G-D785\Depth
Mass2 W	SRT\G-A220\Width
Mass2 Vol.	SRT\G-D705\Volume
Mass3	SRT\M-03000\Mass
Mass3 L	SRT\G-A22A\Length
Mass3 D	DCM\G-D785\Depth
Mass3 W	SRT\G-A220\Width
Mass3 Vol.	SRT\G-D705\Volume
Mass4	SRT\M-03000\Mass
Mass4 L	SRT\G-A22A\Length
Mass4 D	DCM\G-D785\Depth
Mass4 W	SRT\G-A220\Width
Mass4 Vol.	SRT\G-D705\Volume
Mass5	SRT\M-03000\Mass
Mass5 L	SRT\G-A22A\Length
Mass5 D	DCM\G-D785\Depth
Mass5 W	SRT\G-A220\Width
Mass5 Vol.	SRT\G-D705\Volume
Testis Vol.	MDSN\99100-9\Testis Volume
Testis L	SRT\G-A22A\Length
Testis H	DCM\121207\Height
Testis W	SRT\G-A220\Width
Testis Flow	MDSN\99100-10\Testis Flow
PSV	LN\11726-7\Peak Systolic Velocity
EDV	LN\11653-3\End Diastolic Velocity
TAPV	LN\11692-1\Time averaged peak velocity
TAMV	LN\20352-1\Time averaged mean velocity
PGmax	LN\20247-3\Peak Gradient
PGmean	LN\20256-4\Mean Gradient
S/D	LN\12144-2\Systolic to Diastolic Velocity Ratio
D/S	MDSN\99200-01\Diastolic to Systolic Velocity Ratio

RI	LN\12023-8\Resistivity Index
PI	LN\12008-9\Pulsatility Index
%StA	SRT\R-101BA\Lumen Area Stenosis
%StA Outer Area	SRT\G-0366\Vessel lumen cross-sectional area
%StA Inner Area	SRT\R-1025D\Vessel Intimal Cross-Sectional Area
%StD	SRT\R-101BB\Lumen Diameter Stenosis
%StD Outer Dist.	SRT\G-0364\Vessel lumen diameter
%StD Inner Dist.	SRT\R-1025C\Vessel Intimal Diameter
Vesl. Area	MDSN\99200-02\Vessel Area
Vol. Flow(A)	SRT\G-0365\Vessel outside diameter
Vesl. Dist	LN\33878-0\Volume flow
Vol. Flow(D)	LN\33878-0\Volume flow

9.5.2.3 Superficial Measurement and Calculation used in Small Parts SR

Table 9.5-10 Superficial Measurement and Calculation Items

RS80A Label	DICOM SR Concept Name (CDS CV CM)
Superficial	SRT\G-A139\Superficial
Mass1	SRT\M-03000\Mass
Mass1 L	SRT\G-A22A\Length
Mass1 D	DCM\G-D785\Depth
Mass1 W	SRT\G-A220\Width
Mass1 Vol.	SRT\G-D705\Volume
Mass2	SRT\M-03000\Mass
Mass2 L	SRT\G-A22A\Length
Mass2 D	DCM\G-D785\Depth
Mass2 W	SRT\G-A220\Width
Mass2 Vol.	SRT\G-D705\Volume
Mass3	SRT\M-03000\Mass
Mass3 L	SRT\G-A22A\Length
Mass3 D	DCM\G-D785\Depth
Mass3 W	SRT\G-A220\Width
Mass3 Vol.	SRT\G-D705\Volume

Mass4	SRT\M-03000\Mass
Mass4 L	SRT\G-A22A\Length
Mass4 D	DCM\G-D785\Depth
Mass4 W	SRT\G-A220\Width
Mass4 Vol.	SRT\G-D705\Volume
Mass5	SRT\M-03000\Mass
Mass5 L	SRT\G-A22A\Length
Mass5 D	DCM\G-D785\Depth
Mass5 W	SRT\G-A220\Width
Mass5 Vol.	SRT\G-D705\Volume
Superficial Vol.	MDSN\99100-11\Superficial Volume
Superficial L	SRT\G-A22A\Length
Superficial H	DCM\121207\Height
Superficial W	SRT\G-A220\Width
Superficial Flow	MDSN\99100-12\Superficial Flow
PSV	LN\11726-7\Peak Systolic Velocity
EDV	LN\11653-3\End Diastolic Velocity
TAPV	LN\11692-1\Time averaged peak velocity
TAMV	LN\20352-1\Time averaged mean velocity
PGmax	LN\20247-3\Peak Gradient
PGmean	LN\20256-4\Mean Gradient
S/D	LN\12144-2\Systolic to Diastolic Velocity Ratio
D/S	MDSN\99200-01\Diastolic to Systolic Velocity Ratio
RI	LN\12023-8\Resistivity Index
PI	LN\12008-9\Pulsatility Index
%StA	SRT\R-101BA\Lumen Area Stenosis
%StA Outer Area	SRT\G-0366\Vessel lumen cross-sectional area
%StA Inner Area	SRT\R-1025D\Vessel Intimal Cross-Sectional Area
%StD	SRT\R-101BB\Lumen Diameter Stenosis
%StD Outer Dist.	SRT\G-0364\Vessel lumen diameter
%StD Inner Dist.	SRT\R-1025C\Vessel Intimal Diameter
Vesl. Area	MDSN\99200-02\Vessel Area
Vol. Flow(A)	SRT\G-0365\Vessel outside diameter
Vesl. Dist	LN\33878-0\Volume flow
Vol. Flow(D)	LN\33878-0\Volume flow

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9.6 BREAST IMAGING STRUCTURED REPORT TEMPLATE

9.6.1 Breast Imaging Report (TID 4200)

Table 9.6-1
Breast Imaging Report

No	Rel With Parent	VT	Concept Name	Comments	RS80A Label
1		CONTAINER	EV (111400, DCM, "Breast Imaging Report")		
2	HAS CONCEPT MOD	INCLUDE	DTID (1204) Language of Content Item and Descendants		
3	CONTAINS	INCLUDE	DTID (4202) Breast Imaging Report Narrative		
4	CONTAINS	INCLUDE	DTID (4208) Breast Imaging Report Supplementary Data		

9.6.1.1 Language of Content Item and Descendants (TID 1204)

Table 9.6-2
Breast Imaging Procedure Reported

Ī	No	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
	1	HAS CONCEPT MOD	CODE	(121049,DCM,"Language of Content Item and Descendants")	(en, RFC3066, "English")	Label

9.6.1.2 Breast Imaging Procedure Reported (TID 4201)

Table 9.6-3
Breast Imaging Procedure Reported

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
1		CODE	EV (121058, DCM, "Procedure reported")	(P5-B8500, SRT,	

				"Ultrasonography of breast")		l
	HAS			(T-04030, SRT, "Left breast")		Ì
2	CONCEPT	CODE	EV (G-C171, SRT, "Laterality")	(T-04020, SRT, "Right	Lt, Rt	Ì
	MOD			breast")		ı

9.6.1.3 Breast Imaging Report Narrative (TID 4202)

Table 9.6-4
Breast Imaging Report Report Narrative

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
1		CONTAINER	EV (111412, DCM, "Narrative Summary")		
2	CONTAINS	CONTAINS	(121058, DCM, "Procedure reported")		
2-1	HAS OBS CONTEXT	INCLUDE	DTID (1002) Observer Context		
2-2	CONTAINS	TEXT	EV (121058, DCM, "Procedure reported")	"Ultrasonography of breast"	

9.6.1.4 Observer Context (TID 1002)

Table 9.6-5
OBSERVER CONTEXT IN BREAST SR

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
1	HAS OBS CONTEXT	CODE	(121005, DCM, "Observer Type")	(121006, DCM, "Person")	
2	HAS OBS CONTEXT	PNAME	(121008, DCM, "Person Observer Name")		Ref. Physician
3	HAS OBS CONTEXT	CODE	(121024, DCM, "Subject Class")	(121025 ,DCM,"Patient")	
4	HAS OBS CONTEXT	PNAME	(121029,DCM, "Subject Name")		LastName, FirstName
5	HAS OBS CONTEXT	DATE	(121031,DCM, "Subject Birth Date")		BirthDate

				(M, DCM, "Male")	Gender
6	HAS OBS CONTEXT	CODE	(121032,DCM, "Subject Sex")	(F, DCM, "Female")	
				(U, DCM, "Unknown sex")	

9.6.1.5 Breast Imaging Assessment (TID 4203)

Table 9.6-6
Breast Imaging Assessment

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comments
1	HAS OBS CONTEXT	CODE	EV (111005, DCM, "Assessment Category")	DCID (6027) Mammography Assessment		Ref Table 9.6-13

9.6.1.6 Breast Imaging Report Finding Section (TID 4206)

Table 9.6-7
Breast Imaging Report Finding Section

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comments
1		CONTAINER	EV (121070, DCM, "Findings")			
2	CONTAINS	INCLUDE	DTID (4201) Breast Imaging Procedure Reported			
3	CONTAINS	CODE	EV (121071, DCM, "Finding")	(111099, DCM, "Selected region") (111462, DCM, "Solid mass")	Seed Point, Seed Ellipse Mass	
3-1	HAS PROPERTIES	INCLUDE	DTID (4203) Breast Imaging Assessment			
3-2	HAS PROPERTIES	INCLUDE	DTID (1400) Linear Measurement			Ref Table 9.6-9

3-3	HAS PROPERTIES	INCLUDE	DTID (1401) Area Measurement			Ref Table 9.6-10
3-4	HAS PROPERTIES	INCLUDE	DTID (1402) Volume Measurement		Vol.	Ref Table 9.6-11
3-5	HAS PROPERTIES	NUM	(99180-1, MDSN, "Angle")		Angle	
3-6	HAS PROPERTIES	CODE	EV (M-020F9, SRT, "Shape")	DCID (6004) Mammography Characteristics of Shape	Shape	Ref Table 9.6-14
3-7	HAS PROPERTIES	CODE	EV (111037, DCM, "Margins")	DCID (6006) Mammography Characteristics of Margin	Margin	Ref Table 9.6-15
3-8	HAS PROPERTIES	CODE	EV (111009, DCM, "Calcification Type")	DCID (6010) Mammography Calcification Types	Calcifications	Ref Table 9.6-16
3-9	HAS PROPERTIES	CODE	EV (G-C189, SRT, "Associated Finding")	DCID (6056) Associated Findings for Breast	Special Case	Ref Table 9.6-17
3-10	HAS PROPERTIES	CODE	EV (111354, DCM, "Orientation")	DCID (6152) Orientation	Orientation	Ref Table 9.6-18
3-11	HAS PROPERTIES	CODE	EV (111357, DCM, "Lesion boundary")	DCID (6153) Lesion boundary	Lesion	Ref Table 9.6-19
3-12	HAS PROPERTIES	CODE	EV (111360, DCM, "Echo pattern")	DCID (6154) Echo pattern	Echo pattern	Ref Table 9.6-20
3-13	HAS PROPERTIES	CODE	EV (111366, DCM, "Posterior acoustic features")	DCID (6155) Posterior acoustic features	Posterior Feature	Ref Table 9.6-21

				DCID (6015)		Ref Table
3-14	HAS	CODE	EV (111371, DCM, "Identifiable	Single Image	Surrounding	9.6-22
3-14	PROPERTIES	CODE	effect on surrounding tissues")	Finding from	Tissue	
				BI-RADS®		
						Ref
3-15	HAS	CODE	EV (111372, DCM, "Vascularity")	DCID (6157)	Vascularity	Table 9.6-
3-13	PROPERTIES	CODE	EV (111372, DOW, Vasculatily)	Vascularity	vascularity	23

9.6.1.7 Breast Imaging Report Supplementary Data (TID 4208)

Table 9.6-8
Breast Imaging Report Supplementary Data

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
1		CONTAINER	EV (111414, DCM, "Supplementary Data")		
2	CONTAINS	INCLUDE	DTID (4201) Breast Imaging Procedure Reported		
3	CONTAINS	INCLUDE	DTID (4206) Breast Imaging Report Finding Section		

9.6.1.8 Linear Measurement Template (TID 1400)

Table 9.6-9
Linear Measurement

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comments
1		NUM	Context ID 7470 Linear Measurements	Units = DCID (7460) Units of Linear Measurement		Ref. Table 9.6-12

9.6.1.9 Area Measurement Template (TID 1401)

Table 9.6-10

Area Measurement

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label
1	1 NUM EV (G-A166, SRT, "Area")		EV (G-A166, SRT, "Area")	Units = DCID (7461) Units of Area Measurement	

9.6.1.10 Volume Measurement Template (TID 1402)

Table 9.6-11

Volume Measurement

	REL	VT	Concept Name	Unit / CODE Value	RS80A Label	Comments
1		NUM	EV (G-D705, SRT, "Volume")	Units = DCID (7462) Units of Volume Measurement		

9.6.2 DCMR Context Groups used in RS80A

9.6.2.1 Standard Extended Context Groups in Breast SR

Table 9.6-12
Context ID 7470 Linear Measurements

CSD	CV	СМ	RS80A Label
SRT	G-A22A	Length	Length, L
DCM	121206	Distance	Distance
SRT	G-A220	Width	Width, W
SRT	G-D785	Depth	Depth, D
DCM	121207	Height	Height, H

Table 9.6-13
Context ID 6027 Mammography Assessment

CSD	cv	СМ	RS80A Label
ВІ	II.AC.a	0 - Need additional imaging evaluation	Unknown
ВІ	II.AC.b.1	1-Negative	Negative
ВІ	II.AC.b.2	2-Benign Finding	Benign
ВІ	II.AC.b.3	3-Probably Benign Finding-short interval follow-up	Probably benign
			Possibly Benign
ВІ	II.AC.b.4	4-Suspicious abnormality, biopsy should be considered	Possibly Malignant
ВІ	MA.II.A.5.4A	4A-Low suspicion	Low suspicion of Malignancy
ВІ	MA.II.A.5.4B	4B-Intermediate suspicion	Intermediate suspicion of
			malignancy
ВІ	MA.II.A.5.4C	4C-Moderate suspicion	Moderate concern, but not
			classic for malignancy
ВІ	II.AC.b.5	5-Highly suggestive of malignancy, take appropriate	Highly suggestive of
		action	malignancy
BI	MA.II.A.5.6	6-Known biopsy proven malignancy	Known biopsy-proven
			malignancy

Table 9.6-14
Context ID 6004 Mammography Characteristics of Shape

CSD	cv	СМ	RS80A Label
SRT	M-02100	Round shape	Round
SRT	M-02120	Ovoid shape (Oval)	Oval
SRT	G-A402	Irregular	Irregular

Table 9.6-15
Context ID 6006 Mammography Characteristics of Margin

CSD	cv	СМ	RS80A Label
SRT	F-01741	Circumscribed lesion	Circumscribed
SRT	F-01742	Microlobulated lesion	Microlobulated
SRT	F-01744	Indistinct lesion	Indistinct
SRT	F-01745	Spiculated lesion	Spiculated
DCM	111343	Angular margins	Angular

Table 9.6-16
Context ID 6010 Mammography Calcification Types

CSD	CV	СМ	RS80A Label
SRT	R-41198	Unknown	Unknown
DCM	111345	Macrocalcifications	Macrocalcifications
DCM	111347	Calcifications outside of a mass	Micro. Out Of Mass
DCM	111346	Calcifications within a mass	Macro. In Mass

Table 9.6-17
Context ID 6056 Associated Findings for Breast

CSD	cv	СМ	RS80A Label
SRT	R-41198	Unknown	Unknown
DCM	111129	Clustered microcysts	Clustered Microcysts
DCM	111130	Complicated cyst	Complicated Cysts
SRT	D7-90382	Sebaceous cyst of skin of breast	Mass in or on skin
SRT	M-30400	Foreign body	Foreign Body
SRT	T-C4351	Intra-mammary lymph node	Intrama. Lymph Nodes
SRT	T-C4710	Axillary lymph node	Axillary Lymph Node

Table 9.6-18
Context ID DCID 6152 Orientation

CSD	cv	СМ	RS80A Label
DCM	111355	Parallel	Parallel
DCM	111356	Not parallel	Not parallel

Table 9.6-19
Context ID 6153 Lesion boundary

CSD	cv	СМ	RS80A Label
DCM	111358	Abrupt interface	Abrupt Interface
DCM	111359	Echogenic halo	Echogenic Halo

Table 9.6-20
Context ID 6154 Echo Pattern

CSD	CV	СМ	RS80A Label
DCM	111361	Anechoic	Anechoic
DCM	111362	Hyperechoic	Hyperechoic
DCM	111363	Complex	Complex Echogenicity
DCM	111364	Hypoechoic	Hypoechoic
DCM	111365	Isoechoic	Isoechoic

Table 9.6-21
Context ID 6155 Posterior acoustic features

CSD	CV	СМ	RS80A Label
DCM	111367	No posterior acoustic features	No Posterior Findings
DCM	111368	Posterior enhancement	Enhancement
DCM	111369	Posterior shadowing	Shadowing
DCM	111370	Combined osterior enhancement and shadowing	Combined Pattern

Table 9.6-22
Context ID 6015 Single Image Finding from BI-RADS®

CSD	CV	СМ	RS80A Label
SRT	R-41198	Unknown	Unknown
MDSN	99018-11	Duct Changes	Duct Changes
DCM	111111	Cooper's ligament changes	Cooper Ligament Chg.

SRT	M-36300	Edema	Edema
SRT	F-01795	Architectural distortion of breast	Architectural Changes
SRT	F-0179A	Skin thickening of breast	Skin Thickening
SRT	F-01799	Skin retraction of breast	Skin Retraction

Table 9.6-23
Context ID 6157 Vascularity

CSD	CV	СМ	RS80A Label
DCM	111373	Vascularity not present	None
DCM	111374	Vascularity not assessed	Unknown
DCM	111375	Vascularity present in lesion	In Lesion
DCM	111376	Vascularity present immediately adjacent to	Adjacent To Lesion
		lesion	
DCM	111377	Diffusely increased vascularity in surrounding	Diffuse Vascularity
		tissue	

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