KONICA MINOLTA

SONIMAGE HS2

ULTRASOUND SYSTEM
SONIMAGE HS2

DICOM3.0 Conformance Statement

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EN 02

Contents

1 INTRODUCTION

This document declares conformity of ULTRASOUND DIAGNOSTIC SYSTEM SONIMAGE HS2 (hereinafter, HS2) to DICOM3.0.

1.1 Important Notes

This manual does not guarantee the proper function or performance of the interactive operation between the HS2 and other interfaced devices. Please note the followings.

Connection Test

When the HS2 is used in connection with other devices, implement the connection test by referring to each DICOM conformance statement before start using the system, and confirm the data consistency and its stability. Specifically make sure to firmly confirm the consistency between the basic information of the Patient/Study/Image and the pixel size of the images.

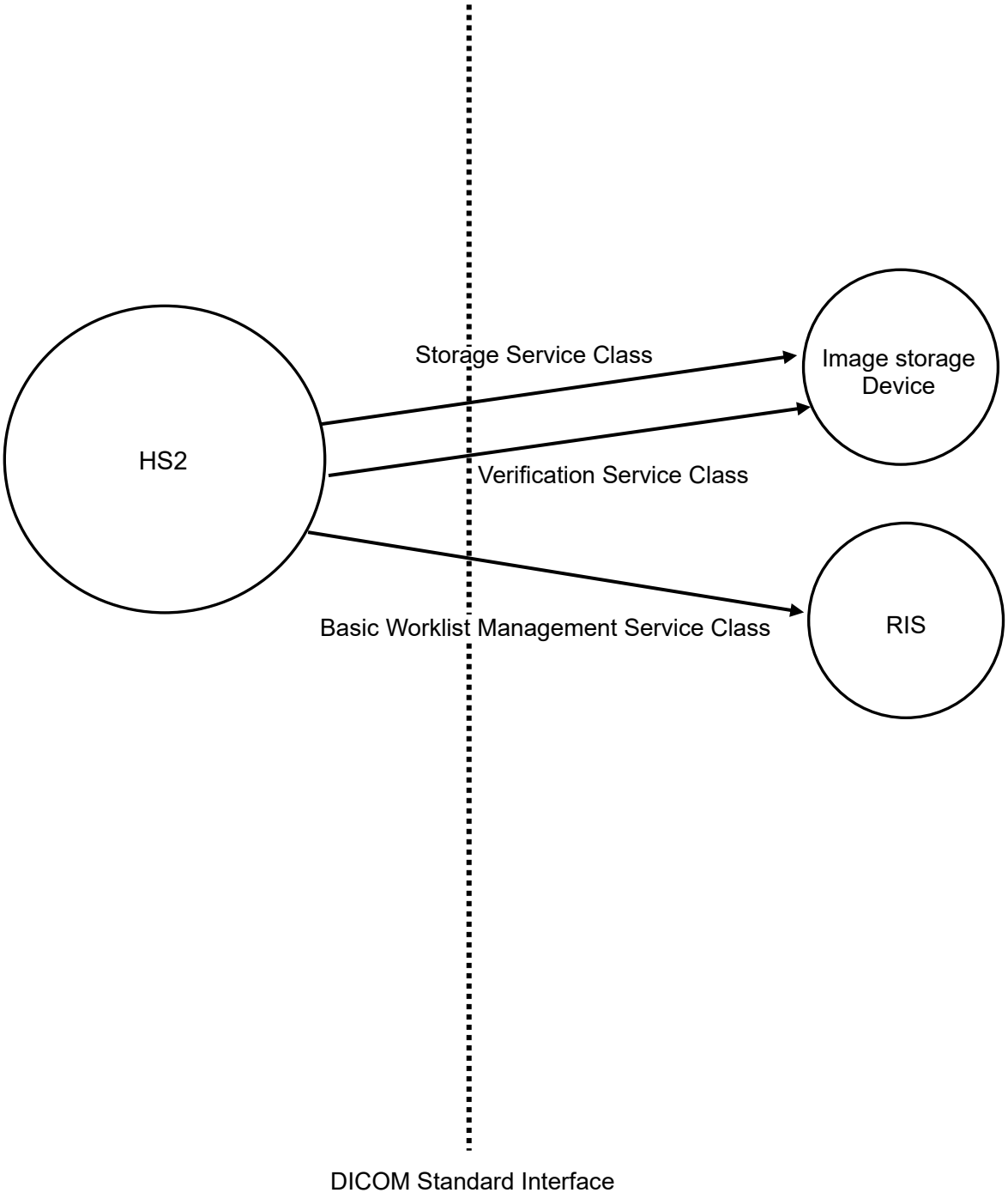
Revision of DICOM Standard

The DICOM standard is annually revised due to diversified operation and introduction of new technology, etc. Please note this may cause a loss of compatibility or connectivity as the result of upgrade of DICOM module in HS2 or connected module after the HS2 has been installed.

2 IMPLEMENTATION MODEL

The HS2 functions as an SCU for the Storage Service Class.
The HS2 functions as an SCU for the Verification Service Class.
The HS2 functions as an SCU for the Basic Worklist Management Service Class.

2.1 Application Data Flow Diagram



2.2 Functional Definitions of AE's

2.2.1 Verification Service Class SCU

The HS2 Verification Service Class SCU operates as a communication process, and issues a C-ECHO-RQ to an external AE.

2.2.2 Storage Service Class SCU

The HS2 Storage Service Class SCU operates as a communication process. After receiving an association request for an external AE, it stores the image in image storage device according to C-STORE.

2.2.3 Basic Worklist Management Service Class SCU

The HS2 Basic Worklist Management Service Class SCU operates as a communication process. After receiving an association request for an external AE, it retrieves the Patient/Study Information from RIS according to C-FIND.

2.2.4 Media Storage

The HS2 Media Storage has following functions:

- Writing a collection of DICOM files to the medium
- Updating a medium by adding a new SOP instance to a collection of DICOM files that has already been existed

2.3 Sequencing of Real World Activities

Sequencing of real world activities is not supported.

3 AE Specifications

3.1 Verification Service Class SCU Specifications

The HS2 supports the following SOP classes as Verification Service Class SCU.

SOP Class Name	SOP Class UID
Verification	1.2.840.10008.1.1

3.1.1 Association Establishment Policies

Conditions for establishing association are described below.

3.1.1.1 General

The HS2 Verification Service Class SCU recognizes and uses the following application context name.

Description	Value
Application Context Name	1.2.840.10008.3.1.1.1

The maximum PDU receive size is 64 KB.
The maximum PDU send size is 20 KB.

3.1.1.2 Number of Associations

The HS2 Verification Service Class SCU issues a single association request at one time for the external AE that is implemented as a separate device.

3.1.1.3 Asynchronous Nature

Asynchronous processing is not supported.

3.1.1.4 Implementation Identifying Information

Description	Value
Implementation Class UID	1.2.392.200036.9107.803
Implementation Version Name	KM_SMGHS1_1.00

3.1.2 Real World Activities

3.1.2.1 Presentation Context Tables

The following presentation contexts will be proposed as required.

Abstract Syntax			
Name	UID	Role	Extended Negotiation
Verification	1.2.840.10008.1.1	SCU	None

Transfer Syntax	
Name	UID
Implicit VR Little Endian	1.2.840.10008.1.2
Explicit VR Little Endian	1.2.840.10008.1.2.1
Explicit VR Big Endian	1.2.840.10008.1.2.2

3.2 Storage Service Class SCU Specifications

The HS2 supports the following SOP classes as Storage Service Class SCU.

SOP Class Name	SOP Class UID
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7
Comprehensive SR	1.2.840.10008.5.1.4.1.1.88.33

3.2.1 Association Establishment Policies

Conditions for establishing association are described below.

3.2.1.1 General

The HS2 Storage Service Class SCU recognizes and uses the following application context name.

Description	Value
Application Context Name	1.2.840.10008.3.1.1.1

The maximum PDU receive size is 64 KB.
The maximum PDU send size is 20 KB.

3.2.1.2 Number of Associations

The HS2 Storage Service Class SCU issues a single association request at one time for the external AE that is implemented as a separate device.

3.2.1.3 Asynchronous Nature

Within the association, only a single image is handled. Asynchronous processing is not supported.

3.2.1.4 Implementation Identifying Information

Description	Value
Implementation Class UID	1.2.392.200036.9107.803
Implementation Version Name	KM_SMGHS1_1.00

3.2.2 Real World Activities

3.2.2.1 Associated Real World Activity

The relevant activity in the real world is issuing an Ultrasound image and Secondary Capture image C-STORE request to the Storage Service Class SCP.

3.2.2.2 Presentation Context Tables

The following presentation contexts will be proposed as required.

Abstract syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		JPEG Lossy Baseline	1.2.840.10008.1.2.4.50		
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		JPEG Lossy Baseline	1.2.840.10008.1.2.4.50		
		JPEG Lossless	1.2.840.10008.1.2.4.70		
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		JPEG Lossy Baseline	1.2.840.10008.1.2.4.50		
		JPEG Lossless	1.2.840.10008.1.2.4.70		
Comprehensive SR	1.2.840.10008.5.1.4.1.1.88.33	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		

3.2.2.3 Ultrasound Image Storage SOP Class

This model conforms with the Ultrasound Image Storage, Ultrasound Multi-frame Image Storage, Secondary Capture Image Storage SOP Class.
The HS2 uses C-STORE to store image data on an image storage device (SCP).

Behavior : For SOP instances matching the Ultrasound Image, Ultrasound Multi-Frame Image, SC Image IOD request, the HS2 executes the C-STORE DIMSE service.
The HS2 recognizes the C-STORE response status and takes appropriate action depending on whether the service terminated normally or not.

Ultrasound Image IOD Modules

IE	Module	Usage
Patient	Patient	M
Study	General Study	M
	Patient Study	U
Series	General Series	M
Equipment	General Equipment	M
Image	General Image	M
	Image Pixel	M
	US Region Calibration	U
	US Image	M
	SOP Common	M

Ultrasound Multi-Frame Image IOD Modules

IE	Module	Usage
Patient	Patient	M
Study	General Study	M
	Patient Study	U
Series	General Series	M
Equipment	General Equipment	M
Image	General Image	M
	Image Pixel	M
	Cine	C
	Multi-Frame	M
	US Region Calibration	U
	US Image	M
	SOP Common	M

SC Image IOD Modules

IE	Module	Usage
Patient	Patient	M
Study	General Study	M
	Patient Study	U
Series	General Series	M
Equipment	General Device	U
	SC Equipment	M
Image	General Image	M
	Image Pixel	M
	SC Image	M
	SOP Common	M

Patient				
Tag	Attribute Name	VR	VM	Type
(0010,0010)	Patient's Name	PN	1	2
(0010,0020)	Patient's ID	LO	1	2
(0010,0030)	Patient's Birth Date	DA	1	2
(0010,0040)	Patient's Sex	CS	1	2
(0010,4000)	Patient Comments	LT	1	3

General Study				
Tag	Attribute Name	VR	VM	Type
(0020,000D)	Study Instance UID	UI	1	1
(0008,0020)	Study Date	DA	1	2
(0008,0030)	Study Time	TM	1	2
(0008,0090)	Referring Physician's Name	PN	1	2
(0020,0010)	Study ID	SH	1	2
(0008,0050)	Accession Number	SH	1	2
(0032,4000)	Study Comment	LT	1	3

Patient Study				
Tag	Attribute Name	VR	VM	Type
(0010,1010)	Patient's Age	AS	1	3
(0010,1020)	Patient's Size	DS	1	3
(0010,1030)	Patient's Weight	DS	1	3

General Series				
Tag	Attribute Name	VR	VM	Type
(0008,0060)	Modality	CS	1	1
(0020,000E)	Series Instance UID	UI	1	1
(0020,0011)	Series Number	IS	1	2
(0008,0021)	Series Date	DA	1	3
(0008,0031)	Series Time	TM	1	3
(0008,103E)	Series Description	LO	1	3
(0008,1070)	Operators' Name	PN	1	3
(0018,0015)	Body Part Examined	CS	1	3
(0040,0253)	Performed Procedure Step ID	SH	1	3
(0040,0244)	Performed Procedure Step Start Date	DA	1	3
(0040,0245)	Performed Procedure Step Start Time	TM	1	3
(0040,0254)	Performed Procedure Step Description	LO	1	3

General Equipment				
Tag	Attribute Name	VR	VM	Type
(0008,0070)	Manufacturer	LO	1	2
(0008,0080)	Institution Name	LO	1	3
(0008,1010)	Station Name	SH	1	3
(0008,1090)	Manufacturer's Model Name	LO	1	3
(0018,1000)	Device Serial Number	LO	1	3
(0018,1020)	Software Versions	LO	4	3

General Image				
Tag	Attribute Name	VR	VM	Type
(0020,0013)	Instance Number	IS	1	2
(0020,0020)	Patient Orientation	CS	2	2C
(0008,0023)	Content Date	DA	1	2C
(0008,0033)	Content Time	TM	1	2C
(0008,0008)	Image Type(*1)	CS	2	3
(0008,0022)	Acquisition Date	DA	1	3
(0008,0032)	Acquisition Time	TM	1	3
(0008,002A)	Acquisition Datetime	DT	1	3
(0028,2110)	Lossy Image Compression	CS	1	3
(0028,2112)	Lossy Image Compression Ratio	DS	1-n	3
(0028,2114)	Lossy Image Compression Method	CS	1-n	3

Image Pixel				
Tag	Attribute Name	VR	VM	Type
(0028,0002)	Samples per Pixel	US	1	1
(0028,0004)	Photometric Interpretation	CS	1	1
(0028,0010)	Rows	US	1	1
(0028,0011)	Columns	US	1	1
(0028,0100)	Bits Allocated	US	1	1
(0028,0101)	Bits Stored	US	1	1
(0028,0102)	High Bit	US	1	1
(0028,0103)	Pixel Representation	US	1	1
(7FE0,0010)	Pixel Date	OW	1	1

US Region Calibration				
Tag	Attribute Name	VR	VM	Type
(0018,6011)	Sequence of Ultrasound Regions	SQ	1	1
>(0018,6018)	Region Location Min X0(*2)	UL	1	1
>(0018,601A)	Region Location Min Y0(*2)	UL	1	1
>(0018,601C)	Region Location Max X1(*2)	UL	1	1
>(0018,601E)	Region Location Max Y1(*2)	UL	1	1
>(0018,6024)	Physical Units X Direction(*2)	US	1	1
>(0018,6026)	Physical Units Y Direction(*2)	US	1	1
>(0018,602C)	Physical Delta X(*2)	FD	1	1
>(0018,602E)	Physical Delta Y(*2)	FD	1	1
>(0018,6020)	Reference Pixel X0(*2)	SL	1	3
>(0018,6022)	Reference Pixel Y0(*2)	SL	1	3
>(0018,6028)	Ref. Pixel Physical Value X(*2)	FD	1	3
>(0018,602A)	Ref. Pixel Physical Value Y(*2)	FD	1	3
>(0018,6012)	Region Spatial Format(*2)	US	1	1
>(0018,6014)	Region Data Type(*2)	US	1	1
>(0018,6016)	Region Flags(*2)	UL	1	1

US Image				
Tag	Attribute Name	VR	VM	Type
(0028,0006)	Planar	US	1	1C
(0028,0014)	Ultrasound Color Data Present	US	1	3

SOP Common				
Tag	Attribute Name	VR	VM	Type
(0008,0016)	SOP Class UID	UI	1	1
(0008,0018)	SOP Instance UID	UI	1	1
(0008,0005)	Specific Character Set	CS	2-3	1C

Cine				
Tag	Attribute Name	VR	VM	Type
(0018,1063)	Frame Time	DS	1	1C
(0008,2142)	Start Trim	IS	1	3
(0008,2143)	Stop Trim	IS	1	3
(0008,2144)	Recommended Display Frame Rate	IS	1	3
(0018,0040)	Cine Rate	IS	1	3
(0018,0072)	Effective Duration	DS	1	3
(0018,1242)	Actual Frame Duration	IS	1	3

Multi-Frame				
Tag	Attribute Name	VR	VM	Type
(0028,0008)	Number of Frames	IS	1	2
(0028,0009)	Frame Increment Pointer	AT	1-n	1C

SC Image				
Tag	Attribute Name	VR	VM	Type
(0018,1012)	Data of Secondary Capture	DA	1	3
(0018,1014)	Time of Secondary Capture	TM	1	3

SC Equipment				
Tag	Attribute Name	VR	VM	Type
(0008,0064)	Conversion Type	CS	1	1

(*1) In case of Ultrasound Multi-frame Image Storage SOP Class, a value of the last frame is to be stored.
(*2) In case of Ultrasound Multi-frame Image Storage SOP Class, it is not output.

3.2.2.4 Comprehensive SR SOP Class

This model conforms with the Comprehensive SR SOP Class.
The HS2 uses C-STORE to store Structured Report (SR) data on an SR storage device (SCP).

Behavior : For SOP instances matching the Comprehensive SR IOD request, the HS2 executes the C-STORE DIMSE service.
The HS2 recognizes the C-STORE response status and takes appropriate action depending on whether the service terminated normally or not.

Comprehensive SR IOD Modules

IE	Module	Usage
Patient	Patient	M
Study	General Study	M
	Patient Study	U
Series	SR Document Series	M
Equipment	General Equipment	M
Document	SR Document General	M
	SR Document Content	M
	SOP Common	M

SR Document Series				
Tag	Attribute Name	VR	VM	Type
(0008,0060)	Modality	CS	1	1
(0020,000E)	Series Instance UID	UI	1	1
(0020,0011)	Series Number	IS	1	1
(0008,103E)	Series Description	LO	1	3
(0008,1111)	Referenced Performed Procedure Step Sequence	SQ	1	2

SR Document General				
Tag	Attribute Name	VR	VM	Type
(0020,0013)	Instance Number	IS	1	1
(0040,A491)	Completion Flag	CS	1	1
(0040,A493)	Verification Flag	CS	1	1
(0008,0023)	Content Date	DA	1	1
(0008,0033)	Content Time	TM	1	1
(0040,A370)	Referenced Request Sequence	SQ	1	1C
>(0020,000D)	Study Instance UID	UI	1	1
>(0008,1110)	Referenced Study Sequence	SQ	1	2
>>(0008,1150)	Referenced SOP Class UID	UI	1	1
>>(0008,1155)	Referenced SOP Instance UID	UI	1	1
>(0008,0050)	Accession Number	SH	1	2
>(0040,2016)	Placer Order Number / Imaging Service Request	LO	1	2
>(0040,2017)	Filler Order Number / Imaging Service Request	LO	1	2
>(0040,1001)	Requested Procedure ID	SH	1	2
>(0032,1060)	Requested Procedure Description	LO	1	2
>(0032,1064)	Requested Procedure Code Sequence	SQ	1	2
(0040,A372)	Performed Procedure Code Sequence	SQ	1	2

SR Document Content				
Tag	Attribute Name	VR	VM	Type
(0040,A040)	Value Type	CS	1	1
(0040,A043)	Concept Name Code Sequence	SQ	1	1C
>(0008,0100)	Code Value	SH	1	1C
>(0008,0102)	Coding Scheme Designator	SH	1	1C
>(0008,0104)	Code Meaning	LO	1	1
(0040,A050)	Continuity Of Content	CS	1	1
(0040,A504)	Content Template Sequence	SQ	1	1C
>(0008,0105)	Mapping Resource	CS	1	1
>(0040,DB00)	Template Identifier	CS	1	1
(0040,A730)	Content Sequence	SQ	1	1C
>(0040,A010)	Relationship Type	CS	1	1
>…	Document Relationship Macro (See Section 7)			
>…	Document Content Macro (See Section 7)			

3.3 Basic Worklist Management Service Class SCU Specifications

The HS2 supports the following SOP classes as Basic Worklist Management Service Class SCU.

SOP Class Name	SOP Class UID
Modality Worklist Information Model - FIND	1.2.840.10008.5.1.4.31

3.3.1 Association Establishment Policies

3.3.1.1 General

The HS2 Basic Worklist Management Service Class SCU recognizes and uses the following Application context name.

Description	Value
Application Context Name	1.2.840.10008.3.1.1.1

The maximum PDU receive size is 64 KB.
The maximum PDU send size is 20 KB.

3.3.1.2 Number of Associations

The HS2 Basic Worklist Management Service Class SCU issues a single association request at one time for the external AE that is implemented as a separate device.

3.3.1.3 Asynchronous Nature

Asynchronous processing is not supported.

3.3.1.4 Implementation Identifying Information

Description	Value
Implementation Class UID	1.2.392.200036.9107.803
Implementation Version Name	KM_SMGHS1_1.00

3.3.2 Real World Activities

3.3.2.1 Associated Real World Activity

The relevant activity of the HS2 Basic Worklist Management in the real world where an association has been established is issuing a C-FIND request to the Remote Basic Worklist Management Service Class SCP, to retrieve patient and study information.

3.3.2.2 Presentation Context Tables

The HS2 Basic Worklist Management Service Class SCU performs requests with the following Presentation Contexts.

Abstract syntax			
Name	UID	Role	Extended Negotiation
Modality Worklist Information Model- FIND	1.2.840.10008.5.1.4.31	SCU	None

Transfer Syntax	
Name	UID
Implicit VR Little Endian	1.2.840.10008.1.2

3.3.3 Modality Worklist Attributes

3.3.3.1 Matching Key Attributes

Tag	Attribute Name	VR	VM	Matching Key Type	Return Key Type
SOP Common					
(0008,0005)	Specific Character Set	CS	1-n	O	1C
Scheduled Procedure Step					
(0040,0100)	Scheduled Procedure Step Sequence	SQ	1	R	1
>(0040,0001)	Scheduled Station AE Title	AE	1-n	R	1
>(0040,0002)	Scheduled Procedure Step Start Date	DA	1	R	1
>(0008,0060)	Modality	CS	1	R	1
Imaging Service Request					
(0008,0050)	Accession Number	SH	1	O	2
Patient Identification					
(0010,0010)	Patient’s Name	PN	1	R	1
(0010,0020)	Patient’s ID	LO	1	R	1

3.3.3.2 Return Key Attributes

Tag	Attribute Name	VR	VM	Matching Key Type	Return Key Type
SOP Common					
(0008,0005)	Specific Character Set	CS	1-n	O	1C
Scheduled Procedure Step					
(0040,0100)	Scheduled Procedure Step Sequence	SQ	1	R	1
>(0040,0001)	Scheduled Station AE Title	AE	1-n	R	1
>(0040,0002)	Scheduled Procedure Step Start Date	DA	1	R	1
>(0040,0003)	Scheduled Procedure Step Start Time	TM	1	R	1
>(0008,0060)	Modality	CS	1	R	1
>(0040,0006)	Scheduled Performing Physician's Name	PN	1	R	2
>(0040,0007)	Scheduled Procedure Step Description	LO	1	O	1C
>(0040,0008)	Scheduled Protocol Code Sequence	SQ	1	O	1C
>>(0008,0100)	Code Value	SH	1	O	1C
>>(0008,0103)	Coding Scheme Version	SH	1	O	3
>>(0008,0102)	Coding Scheme Designator	SH	1	O	1C
>>(0008,0104)	Code Meaning	LO	1	O	3
>(0040,0009)	Scheduled Procedure Step ID	SH	1	O	1
>(0032,1070)	Requested Contrast Agent	LO	1	O	2C
	All other attributes from the Scheduled Procedure Step Module			O	
Requested Procedure					
(0040,1001)	Requested Procedure ID	SH	1	O	1
(0032,1060)	Requested Procedure Description	LO	1	O	1C
(0032,1064)	Requested Procedure Code Sequence	SQ	1	O	1C
>(0008,0100)	Code Value	SH	1	O	1C
>(0008,0102)	Coding Scheme Designator	SH	1	O	1C
>(0008,0103)	Coding Scheme Version	SH	1	O	3
>(0008,0104)	Code Meaning	LO	1	O	3
(0020,000D)	Study Instance UID	UI	1	O	1
	All other attributes from the Requested Procedure Module			O	
Imaging Service Request					
(0008,0050)	Accession Number	SH	1	O	2
(0032,1032)	Requesting Physician	PN	1	O	2
(0008,0090)	Referring Physician's Name	PN	1	O	2
	All other attributes from the Imaging Service Request Module			O	
Patient Identification					
(0010,0010)	Patient’s Name	PN	1	R	1
(0010,0020)	Patient ID	LO	1	R	1
	All other attributes from the Patient Identification Module			O	
Patient Demographic					
(0010,0030)	Patient's Birth Date	DA	1	O	2
(0010,0040)	Patient's Sex	CS	1	O	2
(0010,1010)	Patient’s Age	AS	1	O	3
(0010,1020)	Patient’s Size	DS	1	O	3
(0010,1030)	Patient’s Weight	DS	1	O	2
(0010,4000)	Patient Comments	LT	1	O	3
	All other attributes from the Patient Demographic Module			O	

Patient Medical					
(0010,2000)	Medical Alerts	LO	1-n	O	2
(0010,2110)	Contrast Allergies	LO	1-n	O	2
(0010,21C0)	Pregnancy Status	US	1	O	2
(0010,21D0)	Last Menstrual Date	DA	1	O	3
(0038,0050)	Special Needs	LO	1	O	2
(0038,0500)	Patient State	LO	1	O	2
	All other attributes from the Patient Medical Module			O	

3.4 Specifications of Media Storage

3.4.1 File Meta Information for the Application Entity

Content	Value
Implementation Class UID	1.2.392.200036.9107.700.1
Implementation Version Name	MG_DICOM V1.00

3.4.2 Real World Activities

3.4.2.1 Associated Real World Activity

HS2 Media Storage does the followings:

- Export Image Files
  Working as FSC that uses the interchange option in which direction for creating USB/SD is present, with user operations.
- Add Image Files
  Working as FSU that uses the interchange option in which direction for updating USB/SD is present, with user operations.

Supports only SOP Instances generated by HS2 Media Storage.

3.4.2.2 SOP Class Specifications

IOD and Transfer Syntax for STD-GEN-USB/STD-GEN-SD

Information Object Definition	SOP Class UID	Transfer Syntax	Transfer Syntax UID
Media Storage Directory Storage	1.2.840.10008.1.3.10	Explicit VR Little Endian	1.2.840.10008.1.2.1
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Implicit VR Little Endian	1.2.840.10008.1.2
		Explicit VR Little Endian	1.2.840.10008.1.2.1
		Explicit VR Big Endian	1.2.840.10008.1.2.2
		JPEG Lossy Baseline	1.2.840.10008.1.2.4.50
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Implicit VR Little Endian	1.2.840.10008.1.2
		Explicit VR Little Endian	1.2.840.10008.1.2.1
		Explicit VR Big Endian	1.2.840.10008.1.2.2
		JPEG Lossy Baseline	1.2.840.10008.1.2.4.50
		JPEG Lossless	1.2.840.10008.1.2.4.70
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Implicit VR Little Endian	1.2.840.10008.1.2
		Explicit VR Little Endian	1.2.840.10008.1.2.1
		Explicit VR Big Endian	1.2.840.10008.1.2.2
		JPEG Lossy Baseline	1.2.840.10008.1.2.4.50
		JPEG Lossless	1.2.840.10008.1.2.4.70

3.4.2.3 DICOMDIR Attributes

Tag	Attribute Name	Notes
File-set Identification		
(0004,1130)	File-set ID	
Directory Information		
(0004,1200)	Offset of the First Directory Record of the Root Directory Entity	
(0004,1202)	Offset of the Last Directory Record of the Root Directory Entity	
(0004,1212)	File-set Consistency Flag	
(0004,1220)	Directory Record Sequence	
>(0004,1400)	Offset of the Next Directory Record	
>(0004,1410)	Record In-use Flag	
>(0004,1420)	Offset of Referenced Lower-Level Directory Entity	
>(0004,1430)	Directory Record Type	Set the following enumeration values. PATIENT STUDY SERIES IMAGE
>(0004,1500)	Referenced File ID	Only when Directory Record Type is IMAGE
>(0004,1510)	Referenced SOP Class UID in File	Only when Directory Record Type is IMAGE
>(0004,1511)	Referenced SOP Instance UID in File	Only when Directory Record Type is IMAGE
>(0004,1512)	Referenced Transfer Syntax UID in File	Only when Directory Record Type is IMAGE
Patient Keys(Directory Record Type PATIENT)		
(0008,0005)	Specific Character Set	
(0010,0010)	Patient's Name	
(0010,0020)	Patient ID	
(0010,0030)	Patient's Birth Date	
(0010,0040)	Patient's Sex	
Study Keys(Directory Record Type STUDY)		
(0008,0005)	Specific Character Set	
(0008,0020)	Study Date	
(0008,0030)	Study Time	
(0008,0050)	Accession Number	
(0008,1030)	Study Description	Set the value to empty.
(0020,000D)	Study Instance UID	
(0020,0010)	Study ID	
Series Keys(Directory Record Type SERIES)		
(0008,0005)	Specific Character Set	
(0008,0060)	Modality	
(0020,000E)	Series Instance UID	
(0020,0011)	Series Number	
Image Keys(Directory Record Type IMAGE)		
(0008,0005)	Specific Character Set	
(0020,0013)	Instance Number	

4 Communication Profiles

4.1 Supported Communication Stacks

HS2 provides the TCP/IP network communication support defined by the DICOM3.0 PART8.

4.2 TCP/IP Stack

The TCP/IP stack is inherited from the Windows system environment.

4.2.1 Physical Media Support

For using TCP/IP, 100BASE-T are supported as standard.

4.3 IPv4 and IPv6 support

Only IPv4 is supported.

5 Configuration

5.1 Verification Service Class SCU

5.1.1 Configurable Parameters

The followings are configurable parameters.

Item	Contents
IP address	IP address of SCP
Port number	Port number of SCP
Calling AE-TITLE	Application title of HS2
Called AE-TITLE	Application title of SCP

5.2 Storage Service Class SCU

5.2.1 Configurable Parameters

The followings are configurable parameters.

Item	Contents
IP address	IP address of SCP
Port number	Port number of SCP
Calling AE-TITLE	Application title of HS2
Called AE-TITLE	Application title of SCP

5.3 Basic Worklist Management Service Class SCU

5.3.1 Configurable Parameters

The followings are configurable parameters.

Item	Contents
IP address	IP address of SCP
Port number	Port number of SCP
Calling AE-TITLE	Application title of HS2
Called AE-TITLE	Application title of SCP

6 Support of Extended Character Sets

The VR provides support for extended characters in SH (short string), LO (long string), ST (short text), LT (long text), and PN (person name) by specifying an extended character repertoire for the Attribute Specific Character Set (0008,0005) in each Service Class.
The supported extended character repertoire is as follows.

- ISO_IR 100
- ISO_IR 192
- GB18030

7 Appendix

7.1 SR Templates

7.1.1 OB-GYN Ultrasound Procedure Report

This appendix lists the DICOM Structured Report (SR) mappings used in the OB-GYN Ultrasound Procedure Report of DICOM SR files.
All private code values use the Coding Scheme Designator “99KMHC”

7.1.1.1 Language of Content Item and Descendants

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Language of Content Item and Descendants	DCM	121049	Language of Content Item and Descendants	
English	ISO639_2	eng	English	

7.1.1.2 Observation Context

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Observer Type	DCM	121005	Observer Type	
Device	DCM	121007	Device	

7.1.1.3 Patient Characteristics

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Patient Characteristics	DCM	121118	Patient Characteristics	
Height	LN	8302-2	Patient Height	
Weight	LN	29463-7	Patient Weight	
Gravida	LN	11996-6	Gravida	
Para	LN	11977-6	Para	
AB	LN	11612-9	Aborta	
Ectopic	LN	33065-4	Ectopic Pregnancies	

7.1.1.4 OB-GYN Procedure Summary Section

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
LMP	LN	11955-2	LMP	
EDD	LN	11778-8	EDD	
EDD(LMP)	LN	11779-6	EDD from LMP	
EDD(US GA)	LN	11781-2	EDD from average ultrasound age	

7.1.1.5 OB-GYN Fetus Summary

Label	Author	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
FHR		LN	11948-7	Fetal Heart Rate	
EFW1		LN	11727-5	Estimated Weight	
	Hadlock1	LN	11751-5	EFW by AC, FL, Hadlock 1985	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Hadlock2	LN	11735-8	EFW by AC, BPD, FL, Hadlock 1985	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Hadlock3	LN	11746-5	EFW by AC, FL, HC, Hadlock 1985	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Hadlock4	LN	11732-5	EFW by AC, BPD, FL, HC, Hadlock 1985	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Hansmann	99KMHC	KHU-300-00025	EFW1 by BPD, TTD, Hansmann 1985	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Merz	99KMHC	KHU-300-00011	EFW1, Merz(AC,BPD) 1991	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Shepard	LN	11739-0	EFW by AC and BPD, Shepard 1982	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Tokyo U.	LN	33144-7	EFW by BPD, APAD, TAD, FL, Tokyo 1987	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
	Osaka	LN	33140-5	EFW by BPD, FTA, FL, Osaka 1990	
	JSUM	99KMHC	KHU-300-00047	EFW1 by BPD, AC, FL, JSUM 2003	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)

EFW1		LN	18185-9	Gestational Age	
	Tokyo U.	99KMHC	KHU-300-00039	EFW1, Tokyo	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
	Osaka	99KMHC	KHU-300-00040	EFW1, Osaka	
	JSUM	99KMHC	KHU-300-00049	EFW1, JSUM 2003	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
EFW2		LN	11727-5	Estimated Weight	
	Hadlock1	LN	11751-5	EFW by AC, FL, Hadlock 1985	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Hadlock2	LN	11735-8	EFW by AC, BPD, FL, Hadlock 1985	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Hadlock3	LN	11746-5	EFW by AC, FL, HC, Hadlock 1985	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Hadlock4	LN	11732-5	EFW by AC, BPD, FL, HC, Hadlock 1985	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Hansmann	99KMHC	KHU-300-00031	EFW2 by BPD, TTD, Hansmann 1985	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Merz	99KMHC	KHU-300-00013	EFW2, Merz(AC,BPD) 1991	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Shepard	LN	11739-0	EFW by AC and BPD, Shepard 1982	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Tokyo U.	LN	33144-7	EFW by BPD, APAD, TAD, FL, Tokyo 1987	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
	Osaka	LN	33140-5	EFW by BPD, FTA, FL, Osaka 1990	
	JSUM	99KMHC	KHU-300-00048	EFW2 by BPD, AC, FL, JSUM 2003	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
		LN	18185-9	Gestational Age	
	Tokyo U.	99KMHC	KHU-300-00041	EFW2, Tokyo	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
	Osaka	99KMHC	KHU-300-00042	EFW2, Osaka	
	JSUM	99KMHC	KHU-300-00050	EFW2, JSUM 2003	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)

US GA		LN	11888-5	Composite Ultrasound Age	
	Hadlock1	99KMHC	KHU-300-00014	US-GA, Hadlock1(BPD,HC) 1985	
	Hadlock2	99KMHC	KHU-300-00015	US-GA, Hadlock2(BPD,AC) 1985	
	Hadlock3	99KMHC	KHU-300-00016	US-GA, Hadlock3(BPD,FL) 1985	
	Hadlock4	99KMHC	KHU-300-00017	US-GA, Hadlock4(HC,AC) 1985	
	Hadlock5	99KMHC	KHU-300-00018	US-GA, Hadlock5(HC,FL) 1985	
	Hadlock6	99KMHC	KHU-300-00019	US-GA, Hadlock6(AC,FL) 1985	
	Hadlock7	99KMHC	KHU-300-00020	US-GA, Hadlock7 (BPD,HC,AC) 1985	
	Hadlock8	99KMHC	KHU-300-00021	US-GA, Hadlock8 (BPD,HC,FL) 1985	
	Hadlock9	99KMHC	KHU-300-00022	US-GA, Hadlock9 (BPD,AC,FL) 1985	
	Hadlock10	99KMHC	KHU-300-00023	US-GA, Hadlock10 (HC,AC,FL) 1985	
	Hadlock11	99KMHC	KHU-300-00024	US-GA, Hadlock11 (BPD,HC,AC,FL) 1985	
	Average	LN	11884-4	Average Ultrasound Age	

7.1.1.6 Fetal Biometry Ratio Section

Label	Author	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
FL/BPD		LN	11872-9	FL/BPD	
	Hohler	99KMHC	KHU-300-00035	FL/BPD, Hohler 1981	Normal Range Lower Limit(SRT,R-10041) Normal Range Upper Limit(SRT,R-0038B)
FL/AC		LN	11871-1	FL/AC	
	Hadlock	99KMHC	KHU-300-00036	FL/AC, Hadlock 1983	Normal Range Lower Limit(SRT,R-10041) Normal Range Upper Limit(SRT,R-0038B)
HC/AC		LN	11947-9	HC/AC	
	Campbell	LN	33182-7	HC/AC by GA, Campbell 1977	Normal Range Lower Limit(SRT,R-10041) Normal Range Upper Limit(SRT,R-0038B)
FL/HC		LN	11873-7	FL/HC	
	Hadlock	99KMHC	KHU-300-00037	FL/HC, Hadlock 1984	Normal Range Lower Limit(SRT,R-10041) Normal Range Upper Limit(SRT,R-0038B)
CI		LN	11823-2	Cephalic Index	
	Hadlock	LN	33158-7	Cephalic Index by GA, Hadlock 1981	Normal Range Lower Limit(SRT,R-10041) Normal Range Upper Limit(SRT,R-0038B)
CTAR		99KMHC	KHU-101-00005	Cardiothoracic area ratio	

7.1.1.7 Fetal Biometry Section

Label	Author	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
BPD		LN	11820-8	Biparietal Diameter	
		LN	18185-9	Gestational Age	
	Hadlock	LN	11902-4	BPD, Hadlock 1984	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Merz	99KMHC	KHU-300-00001	BPD, Merz 1991	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Lasser(EV)	99KMHC	KHU-300-00028	BPD, Lasser(EV) 1993	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Rempen(EV)	LN	33083-7	BPD, Rempen 1991	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	ASUM	99KMHC	KHU-300-00002	BPD, ASUM 2001	
	Tokyo U.	LN	33085-2	BPD, Tokyo 1986	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
	Osaka	LN	33082-9	BPD, Osaka 1989	
	JSUM	99KMHC	KHU-300-00044	BPD, JSUM 2003	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
OFD		LN	11851-3	Occipital-Frontal Diameter	
		LN	18185-9	Gestational Age	
	Merz	99KMHC	KHU-300-00003	OFD, Merz 1996	
	ASUM	99KMHC	KHU-300-00004	OFD, ASUM 2001	
HC		LN	11984-2	Head Circumference	
		LN	18185-9	Gestational Age	
	Hadlock	LN	11932-1	HC, Hadlock 1984	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Merz	99KMHC	KHU-300-00005	HC, Merz 1991	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Lasser(EV)	99KMHC	KHU-300-00029	HC, Lasser(EV) 1993	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
ASD		LN	11818-2	Anterior-Posterior Abdominal Diameter	
		LN	18185-9	Gestational Age	
	Merz	99KMHC	KHU-300-00006	ASD, Merz 1996	

TAD(ATD)		LN	11862-0	Transverse Abdominal Diameter	
		LN	18185-9	Gestational Age	
	Merz	99KMHC	KHU-300-00007	ATD, Merz 1996	
AC		LN	11979-2	Abdominal Circumference	
		LN	18185-9	Gestational Age	
	Hadlock	LN	11892-7	AC, Hadlock 1984	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Merz	99KMHC	KHU-300-00008	AC, Merz 1991	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Lasser(EV)	99KMHC	KHU-300-00030	AC, Lasser(EV) 1993	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Tokyo U.	99KMHC	KHU-300-00038	AC, Tokyo	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
	JSUM	99KMHC	KHU-300-00045	AC, JSUM 2003	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
FT		LN	11965-1	Foot length	
		LN	18185-9	Gestational Age	
	Mercer	LN	11926-3	Foot Length, Mercer 1987	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
FTA		LN	33068-8	Thoracic Area	
		LN	18185-9	Gestational Age	
	Osaka	99KMHC	KHU-300-00033	FTA, Osaka	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
APTD		LN	11819-0	Anterior-Posterior Trunk Diameter	
TTD		LN	11864-6	Transverse Thoracic Diameter	
		LN	18185-9	Gestational Age	
	Hansmann	LN	33136-3	Transverse Thoracic Diameter, Hansmann 1985	
AxT		LN	33191-8	APAD * TAD	
		LN	18185-9	Gestational Age	
	Tokyo U.	99KMHC	KHU-300-00034	AxT, Tokyo	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
HA		99KMHC	KHU-101-00002	CTAR Heart Area	
TA		99KMHC	KHU-101-00003	CTAR Thoracic Area	

7.1.1.8 Fetal Long Bones Section

Label	Author	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
FL		LN	11963-6	Femur Length	
		LN	18185-9	Gestational Age	
	Jeanty	LN	11923-0	FL, Jeanty 1984	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Hadlock	LN	11920-6	FL, Hadlock 1984	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Merz	99KMHC	KHU-300-00009	FL, Merz 1991	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Tokyo U.	LN	33103-3	FL, Tokyo 1986	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
	Osaka	LN	33101-7	FL, Osaka 1989	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
	JSUM	99KMHC	KHU-300-00046	FL, JSUM 2003	1 Sigma Lower Value of population(SRT,R-00347) 1 Sigma Upper Value of population(SRT,R-00346)
HL		LN	11966-9	Humerus length	
		LN	18185-9	Gestational Age	
	Jeanty	LN	11936-2	Humerus, Jeanty 1984	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
Tibia		LN	11968-5	Tibia length	
		LN	18185-9	Gestational Age	
	Jeanty	LN	11941-2	Tibia, Jeanty 1984	95th Percentile Value of population(SRT,R-00337) 5th Percentile Value of population(SRT,R-00397)
Ulna		LN	11969-3	Ulna length	
		LN	18185-9	Gestational Age	
	Jeanty	LN	11944-6	Ulna, Jeanty 1984	95th Percentile Value of population(SRT,R-00337) 5th Percentile Value of population(SRT,R-00397)

7.1.1.9 Fetal Cranium Section

Label	Author	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
BN		99KMHC	KHU-101-00001	Fetal Binocular Distance	
		LN	18185-9	Gestational Age	
	Jeanty	99KMHC	KHU-300-00026	BN, Jeanty 1984	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Tongsong	99KMHC	KHU-300-00027	BN, Tongsong 1992	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
NT		LN	12146-7	Nuchal Fold thickness	

7.1.1.10 Fetal Biophysical Profile Section

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Movement	LN	11631-9	Gross Body Movement	
Breathing	LN	11632-7	Fetal Breathing	
Tone	LN	11635-0	Fetal Tone	
FHR	LN	11635-5	Fetal Heart Reactivity	
AFV	LN	11630-1	Amniotic Fluid Volume	
Total	LN	11634-3	Biophysical Profile Sum Score	

7.1.1.11 Early Gestation Section

Label	Author	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
MSD		99KMHC	KHU-101-00006	Mean Gestational Sac Diameter	
		LN	18185-9	Gestational Age	
	Rempen(EV)	LN	11929-7	GS, Rempen 1991	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Hellman	LN	11928-9	GS, Hellman 1969	
	Nyberg	LN	33107-4	GS, Nyberg 1992	
GSD(1)		99KMHC	KHU-101-00007	Gestational Sac Diameter 1	
GSD(2)		99KMHC	KHU-101-00008	Gestational Sac Diameter 2	
GSD(3)		99KMHC	KHU-101-00009	Gestational Sac Diameter 3	
CRL		LN	11957-8	Crown Rump Length	
		LN	18185-9	Gestational Age	
	Hadlock	LN	11910-7	CRL, Hadlock 1992	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Robinson	LN	11914-9	CRL, Robinson 1975	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Hansmann	LN	11911-5	CRL, Hansmann 1985	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	Lasser(EV)	99KMHC	KHU-300-00032	CRL, Lasser(EV) 1993	2 Sigma Lower Value of population(SRT,R-00388) 2 Sigma Upper Value of population(SRT,R-00387)
	ASUM	LN	33090-2	CRL, ASUM 2000	
	Tokyo U.	LN	33096-9	CRL, Tokyo 1986	
	Osaka	LN	33093-6	CRL, Osaka 1989	
	JSUM	99KMHC	KHU-300-00043	CRL, JSUM 2003	10th Percentile Value of population(SRT,R-00377) 90th Percentile Value of population(SRT,R-00338)
GS		LN	11850-5	Gestational Sac Diameter	
		LN	18185-9	Gestational Age	
	Hansmann	LN	33105-8	GS, Hansmann 1979	
	Tokyo U.	LN	33108-2	GS, Tokyo 1986	

7.1.1.12 Amniotic Sac Section

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
AFI	LN	11627-7	Amniotic Fluid Index	
AFI(1)	LN	11624-4	First Quadrant Diameter	
AFI(2)	LN	11626-9	Second Quadrant Diameter	
AFI(3)	LN	11625-1	Third Quadrant Diameter	
AFI(4)	LN	11623-6	Fourth Quadrant Diameter	

7.1.1.13 Pelvis and Uterus Section

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Cervix	LN	11961-0	Cervix Length	
Uterus L	LN	11842-2	Uterus Length	
Uterus H	LN	11859-6	Uterus Height	
Uterus W	LN	11865-3	Uterus Width	
Endometrium	LN	12145-9	Endometrium Thickness	

7.1.1.14 Ovaries Section

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Rt.Ovary L	LN	11841-4	Right Ovary Length	Laterality: Right(SRT, G-A100)
Rt.Ovary W	LN	11830-7	Right Ovary Width	Laterality: Right(SRT, G-A100)
Rt.Ovary H	LN	11858-8	Right Ovary Height	Laterality: Right(SRT, G-A100)
Rt.Ovary V	LN	12165-7	Right Ovary Volume	Laterality: Right(SRT, G-A100)
Lt.Ovary L	LN	11840-6	Left Ovary Length	Laterality: Left(SRT, G-A101)
Lt.Ovary W	LN	11829-9	Left Ovary Width	Laterality: Left(SRT, G-A101)
Lt.Ovary H	LN	11857-0	Left Ovary Height	Laterality: Left(SRT, G-A101)
Lt.Ovary V	LN	12164-0	Left Ovary Volume	Laterality: Left(SRT, G-A101)

7.1.1.15 Follicles Section

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
nn denotes a value from 1 to 20				
Lt.F#nn L	LN	11793-7	Follicle Diameter	Laterality: Left(SRT, G-A101)
Lt.F#nn W	LN	11793-7	Follicle Diameter	Laterality: Left(SRT, G-A101)
Lt.F#nn H	LN	11793-7	Follicle Diameter	Laterality: Left(SRT, G-A101)
Lt.F#nn V	SRT	G-D705	Volume	Laterality: Left(SRT, G-A101)
Rt.F#nn L	LN	11793-7	Follicle Diameter	Laterality: Right(SRT, G-A100)
Rt.F#nn W	LN	11793-7	Follicle Diameter	Laterality: Right(SRT, G-A100)
Rt.F#nn H	LN	11793-7	Follicle Diameter	Laterality: Right(SRT, G-A100)
Rt.F#nn V	SRT	G-D705	Volume	Laterality: Right(SRT, G-A100)

7.1.1.16 Finding Site : Embryonic Vascular Structure

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
MCA	SRT	T-45600	Middle Cerebral Artery	
PSV	LN	11726-7	Peak Systolic Velocity	
Ved	LN	11653-3	End Diastolic Velocity	
S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio	
RI	LN	12023-8	Resistivity Index	
PI	LN	12008-9	Pulsatility Index	
Vm_peak	LN	11692-1	Time averaged peak velocity	
Lt.Um.	SRT	T-F1810	Umbilical Artery	Laterality: Left(SRT, G-A101)
PSV	LN	11726-7	Peak Systolic Velocity	
Ved	LN	11653-3	End Diastolic Velocity	
S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio	
RI	LN	12023-8	Resistivity Index	
PI	LN	12008-9	Pulsatility Index	
Vm_peak	LN	11692-1	Time averaged peak velocity	
Rt.Um.	SRT	T-F1810	Umbilical Artery	Laterality: Right(SRT, G-A100)
PSV	LN	11726-7	Peak Systolic Velocity	

Ved	LN	11653-3	End Diastolic Velocity	
S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio	
RI	LN	12023-8	Resistivity Index	
PI	LN	12008-9	Pulsatility Index	
Vm_peak	LN	11692-1	Time averaged peak velocity	

7.1.1.17 Finding Site : Pelvic Vascular Structure

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Lt.Ov.	SRT	T-46980	Ovarian Artery	Laterality: Left(SRT, G-A101)
PSV	LN	11726-7	Peak Systolic Velocity	
Ved	LN	11653-3	End Diastolic Velocity	
S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio	
RI	LN	12023-8	Resistivity Index	
PI	LN	12008-9	Pulsatility Index	
Vm_peak	LN	11692-1	Time averaged peak velocity	
Rt.Ov.	SRT	T-46980	Ovarian Artery	Laterality: Right(SRT, G-A100)
PSV	LN	11726-7	Peak Systolic Velocity	
Ved	LN	11653-3	End Diastolic Velocity	
S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio	
RI	LN	12023-8	Resistivity Index	
PI	LN	12008-9	Pulsatility Index	
Vm_peak	LN	11692-1	Time averaged peak velocity	

7.1.2 Vascular Ultrasound Report

This appendix lists the DICOM Structured Report (SR) mappings used in the Vascular Ultrasound Report of DICOM SR files.
All private code values use the Coding Scheme Designator “99KMHC”

7.1.2.1 Language of Content Item and Descendants

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Language of Content Item and Descendants	DCM	121049	Language of Content Item and Descendants	
English	ISO639_2	eng	English	

7.1.2.2 Observation Context

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Observer Type	DCM	121005	Observer Type	
Device	DCM	121007	Device	

7.1.2.3 Vascular Patient Characteristics

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Age	DCM	121033	Subject Age	
Gender	DCM	121032	Subject Sex	

7.1.2.4 Measurements label

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
PSV	LN	11726-7	Peak Systolic Velocity	
Ved	LN	11653-3	End Diastolic Velocity	
S/D	LN	12144-2	Systolic to Diastolic Velocity Ratio	
RI	LN	12023-8	Resistivity Index	
PI	LN	12008-9	Pulsatility Index	
Vm_peak	LN	11692-1	Time averaged peak velocity	

7.1.2.5 Artery of Neck (Left Extracranial Arteries, Carotid Ratios)

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Artery of Neck (Left Extracranial Arteries,Carotid Ratios)	SRT	T-45005	Artery of neck	Laterality: Left(SRT, G-A101)
Lt.CCA	SRT	T-45100	Common Carotid Artery	
Prox	See Section 7.1.2.4			Topographical Modifier: Proximal(SRT, G-A118) VesselBranch: Left(SRT, G-A101)
Prox ICA/CCA(S)	LN	33868-1	ICA/CCA velocity ratio	Topographical Modifier: Proximal(SRT, G-A118)
Prox ICA/CCA(D)	99KMHC	KHU-103-00001	ICA/CCA velocity ratio(Ved)	Topographical Modifier: Proximal(SRT, G-A118)
Mid	See Section 7.1.2.4			Topographical Modifier: Mid-longitudinal(SRT, G-A188) VesselBranch: Left(SRT, G-A101)
Mid ICA/CCA(S)	LN	33868-1	ICA/CCA velocity ratio	Topographical Modifier: Mid-longitudinal(SRT, G-A188)
Mid ICA/CCA(D)	99KMHC	KHU-103-00001	ICA/CCA velocity ratio(Ved)	Topographical Modifier: Mid-longitudinal(SRT, G-A188)
Dist	See Section 7.1.2.4			Topographical Modifier: Distal(SRT, G-A119) VesselBranch: Left(SRT, G-A101)
Dist ICA/CCA(S)	LN	33868-1	ICA/CCA velocity ratio	Topographical Modifier: Distal(SRT, G-A119)
Dist ICA/CCA(D)	99KMHC	KHU-103-00001	ICA/CCA velocity ratio(Ved)	Topographical Modifier: Distal(SRT, G-A119)
Lt.BIF	SRT	T-45160	Carotid Bifurcation	
	See Section 7.1.2.4			VesselBranch: Left(SRT, G-A101)

Lt.Bulb	SRT	T-45170	Carotid Bulb	
	See Section 7.1.2.4			VesselBranch: Left(SRT, G-A101)
Lt.ECA	SRT	T-45200	External Carotid Artery	
	See Section 7.1.2.4			VesselBranch: Left(SRT, G-A101)
Lt.ICA	SRT	T-45300	Internal Carotid Artery	
Prox	See Section 7.1.2.4			Topographical Modifier: Proximal(SRT, G-A118) VesselBranch: Left(SRT, G-A101)
Mid	See Section 7.1.2.4			Topographical Modifier: Mid-longitudinal(SRT, G-A188) VesselBranch: Left(SRT, G-A101)
Dist	See Section 7.1.2.4			Topographical Modifier: Distal(SRT, G-A119) VesselBranch: Left(SRT, G-A101)
Lt.Vert A	SRT	T-45700	Vertebral Artery	
	See Section 7.1.2.4			VesselBranch: Left(SRT, G-A101)

7.1.2.6 Artery of Neck (Right Extracranial Arteries, Carotid Ratios)

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Artery of Neck (Right Extracranial Arteries,Carotid Ratios)	SRT	T-45005	Artery of neck	Laterality: Right(SRT, G-A100)
Rt.CCA	SRT	T-45100	Common Carotid Artery	
Prox	See Section 7.1.2.4			Topographical Modifier: Proximal(SRT, G-A118) VesselBranch: Right(SRT, G-A100)
Prox ICA/CCA(S)	LN	33868-1	ICA/CCA velocity ratio	Topographical Modifier: Proximal(SRT, G-A118)
Prox ICA/CCA(D)	99KMHC	KHU-103-00001	ICA/CCA velocity ratio(Ved)	Topographical Modifier: Proximal(SRT, G-A118)
Mid	See Section 7.1.2.4			Topographical Modifier: Mid-longitudinal(SRT, G-A188) VesselBranch: Right(SRT, G-A100)
Mid ICA/CCA(S)	LN	33868-1	ICA/CCA velocity ratio	Topographical Modifier: Mid-longitudinal(SRT, G-A188)
Mid ICA/CCA(D)	99KMHC	KHU-103-00001	ICA/CCA velocity ratio(Ved)	Topographical Modifier: Mid-longitudinal(SRT, G-A188)
Dist	See Section 7.1.2.4			Topographical Modifier: Distal(SRT, G-A119) VesselBranch: Right(SRT, G-A100)
Dist ICA/CCA(S)	LN	33868-1	ICA/CCA velocity ratio	Topographical Modifier: Distal(SRT, G-A119)
Dist ICA/CCA(D)	99KMHC	KHU-103-00001	ICA/CCA velocity ratio(Ved)	Topographical Modifier: Distal(SRT, G-A119)

Rt.BIF	SRT	T-45160	Carotid Bifurcation	
	See Section 7.1.2.4			VesselBranch: Right(SRT, G-A100)
Rt.Bulb	SRT	T-45170	Carotid Bulb	
	See Section 7.1.2.4			VesselBranch: Right(SRT, G-A100)
Rt.ECA	SRT	T-45200	External Carotid Artery	
	See Section 7.1.2.4			VesselBranch: Right(SRT, G-A100)
Rt.ICA	SRT	T-45300	Internal Carotid Artery	
Prox	See Section 7.1.2.4			Topographical Modifier: Proximal(SRT, G-A118) VesselBranch: Right(SRT, G-A100)
Mid	See Section 7.1.2.4			Topographical Modifier: Mid-longitudinal(SRT, G-A188) VesselBranch: Right(SRT, G-A100)
Dist	See Section 7.1.2.4			Topographical Modifier: Distal(SRT, G-A119) VesselBranch: Right(SRT, G-A100)
Rt.Vert A	SRT	T-45700	Vertebral Artery	
	See Section 7.1.2.4			VesselBranch: Right(SRT, G-A100)

7.1.2.7 Artery of Abdomen (Unilateral Abdominal Arteries (Unilateral))

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Artery of Abdomen (Unilateral Abdominal Arteries (Unilateral))	SRT	T-46002	Artery of Abdomen	Laterality: Unilateral(SRT, G-A103)
Aorta Prox	SRT	T-42000	Aorta	
Prox Ao O	SRT	G-0365	Vessel Outside Diameter	Topographical Modifier: Proximal(SRT, G-A118) VesselBranch: Unilateral(SRT, G-A103)
Prox Ao L	SRT	G-0364	Vessel Lumen Diameter	Topographical Modifier: Proximal(SRT, G-A118) VesselBranch: Unilateral(SRT, G-A103)
Prox Ao I	SRT	R-1025C	Vessel Intimal Diameter	Topographical Modifier: Proximal(SRT, G-A118) VesselBranch: Unilateral(SRT, G-A103)
Aorta Distal	SRT	T-42000	Aorta	
Distal Ao O	SRT	G-0365	Vessel Outside Diameter	Topographical Modifier: Distal(SRT, G-A119) VesselBranch: Unilateral(SRT, G-A103)
Distal Ao L	SRT	G-0364	Vessel Lumen Diameter	Topographical Modifier: Distal(SRT, G-A119) VesselBranch: Unilateral(SRT, G-A103)
Distal Ao I	SRT	R-1025C	Vessel Intimal Diameter	Topographical Modifier: Distal(SRT, G-A119) VesselBranch: Unilateral(SRT, G-A103)

Aorta Mid Suprarenal	SRT	T-42510	Supra-renal Aorta	
Mid-S Ao O	SRT	G-0365	Vessel Outside Diameter	Topographical Modifier: Mid-longitudinal(SRT, G-A188) VesselBranch: Unilateral(SRT, G-A103)
Mid-S Ao L	SRT	G-0364	Vessel Lumen Diameter	Topographical Modifier: Mid-longitudinal(SRT, G-A188) VesselBranch: Unilateral(SRT, G-A103)
Mid-S Ao I	SRT	R-1025C	Vessel Intimal Diameter	Topographical Modifier: Mid-longitudinal(SRT, G-A188) VesselBranch: Unilateral(SRT, G-A103)
Aorta Mid Infrarenal	SRT	T-42520	Infra-renal Aorta	
Mid-I Ao O	SRT	G-0365	Vessel Outside Diameter	Topographical Modifier: Mid-longitudinal(SRT, G-A188) VesselBranch: Unilateral(SRT, G-A103)
Mid-I Ao L	SRT	G-0364	Vessel Lumen Diameter	Topographical Modifier: Mid-longitudinal(SRT, G-A188) VesselBranch: Unilateral(SRT, G-A103)
Mid-I Ao I	SRT	R-1025C	Vessel Intimal Diameter	Topographical Modifier: Mid-longitudinal(SRT, G-A188) VesselBranch: Unilateral(SRT, G-A103)
Aorta BIF	99KMHC	KHU-500-00001	Aortic Bifurcation	
Bif. Ao O	SRT	G-0365	Vessel Outside Diameter	VesselBranch: Unilateral(SRT, G-A103)
Bif. Ao L	SRT	G-0364	Vessel Lumen Diameter	VesselBranch: Unilateral(SRT, G-A103)
Bif. Ao I	SRT	R-1025C	Vessel Intimal Diameter	VesselBranch: Unilateral(SRT, G-A103)

7.1.2.8 Artery of Lower Extremity (Left Lower Extremity Arteries)

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Artery of Lower Extremity (Left Lower Extremity Arteries)	SRT	T-47040	Artery of Lower Extremity	Laterality: Left(SRT, G-A101)
Iliac Diam	SRT	T-46710	Common Iliac Artery	
Lt.Iliac O	SRT	G-0365	Vessel Outside Diameter	VesselBranch: Left(SRT, G-A101)
Lt.Iliac L	SRT	G-0364	Vessel Lumen Diameter	VesselBranch: Left(SRT, G-A101)
Lt.Iliac I	SRT	R-1025C	Vessel Intimal Diameter	VesselBranch: Left(SRT, G-A101)

7.1.2.9 Artery of Lower Extremity (Right Lower Extremity Arteries)

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Artery of Lower Extremity (Right Lower Extremity Arteries)	SRT	T-47040	Artery of Lower Extremity	Laterality: Right(SRT, G-A100)
Iliac Diam	SRT	T-46710	Common Iliac Artery	
Rt.Iliac O	SRT	G-0365	Vessel Outside Diameter	VesselBranch: Right(SRT, G-A100)
Rt.Iliac L	SRT	G-0364	Vessel Lumen Diameter	VesselBranch: Right(SRT, G-A100)
Rt.Iliac I	SRT	R-1025C	Vessel Intimal Diameter	VesselBranch: Right(SRT, G-A100)

7.1.3 Echocardiography Procedure Report

This appendix lists the DICOM Structured Report (SR) mappings used in the Echocardiography Procedure Report of DICOM SR files.
All private code values use the Coding Scheme Designator “99KMHC”

7.1.3.1 Language of Content Item and Descendants

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Language of Content Item and Descendants	DCM	121049	Language of Content Item and Descendants	
English	ISO639_2	eng	English	

7.1.3.2 Observation Context

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Observer Type	DCM	121005	Observer Type	
Device	DCM	121007	Device	

7.1.3.3 Echocardiography Patient Characteristics

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Age	DCM	121033	Subject Age	
Gender	DCM	121032	Subject Sex	
BSA	LN	8277-6	Body Surface Area	
BSA Equation,DuBois	DCM	122241	BSA = 0.007184*WT^ 0.425*HT^0.725	

7.1.3.4 Left Ventricle

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
EDVbp	LN	18026-5	Left Ventricular End Diastolic Volume	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2)
ESVbp	LN	18148-7	Left Ventricular End Systolic Volume	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2)
SVbp	SRT	F-32120	Stroke Volume	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2)
CObp	SRT	F-32100	Cardiac Output	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2)
EFbp	LN	18043-0	Left Ventricular Ejection Fraction	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2)
SIbp	SRT	F-00078	Stroke Index	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2)
CIbp	SRT	F-32110	Cardiac Index	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2)
HR	LN	8867-4	Heart Rate	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2)
LVLdDiff	99KMHC	KHU-100-00001	Difference of Left Ventricular Length at End-Diastole	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Cardiac Cycle Point:End Diastole(SRT,F-32011)
LVAd2	SRT	G-0375	Left Ventricular Diastolic Area	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Two Chamber(SRT,G-A19B) Cardiac Cycle Point:End Diastole(SRT,F-32011)
LVAs2	SRT	G-0374	Left Ventricular Systolic Area	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Two Chamber(SRT,G-A19B) Cardiac Cycle Point:End Systole(SRT,R-FAB5B)
EDVap2	LN	18026-5	Left Ventricular End Diastolic Volume	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Two Chamber(SRT,G-A19B)
ESVap2	LN	18148-7	Left Ventricular End Systolic Volume	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Two Chamber(SRT,G-A19B)
SVap2	SRT	F-32120	Stroke Volume	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Two Chamber(SRT,G-A19B)
COap2	SRT	F-32100	Cardiac Output	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Two Chamber(SRT,G-A19B)

EFap2	LN	18043-0	Left Ventricular Ejection Fraction	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Two Chamber(SRT,G-A19B)
SIap2	SRT	F-00078	Stroke Index	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Two Chamber(SRT,G-A19B)
CIap2	SRT	F-32110	Cardiac Index	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Two Chamber(SRT,G-A19B)
LVAd4	SRT	G-0375	Left Ventricular Diastolic Area	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C) Cardiac Cycle Point:End Diastole(SRT,F-32011)
LVAs4	SRT	G-0374	Left Ventricular Systolic Area	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C) Cardiac Cycle Point:End Systole(SRT,R-FAB5B)
EDVap4	LN	18026-5	Left Ventricular End Diastolic Volume	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
ESVap4	LN	18148-7	Left Ventricular End Systolic Volume	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
SVap4	SRT	F-32120	Stroke Volume	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
COap4	SRT	F-32100	Cardiac Output	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
EFap4	LN	18043-0	Left Ventricular Ejection Fraction	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
SIap4	SRT	F-00078	Stroke Index	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
CIap4	SRT	F-32110	Cardiac Index	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
LVLd2	LN	18077-8	Left Ventricle diastolic major axis	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Two Chamber(SRT,G-A19B) Cardiac Cycle Point:End Diastole(SRT,F-32011)
LVLs2	LN	18076-0	Left Ventricle systolic major axis	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Two Chamber(SRT,G-A19B) Cardiac Cycle Point:End Systole(SRT,R-FAB5B)

LVLd4	LN	18077-8	Left Ventricle diastolic major axis	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C) Cardiac Cycle Point:End Diastole(SRT,F-32011)
LVLs4	LN	18076-0	Left Ventricle systolic major axis	Measurement Method:Method of Disks, Biplane(DCM,125207) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C) Cardiac Cycle Point:End Systole(SRT,R-FAB5B)
LVLd	LN	18077-8	Left Ventricle diastolic major axis	Measurement Method:Method of Disks, Single Plane(DCM,125208) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C) Cardiac Cycle Point:End Diastole(SRT,F-32011)
LVAd	SRT	G-0375	Left Ventricular Diastolic Area	Measurement Method:Method of Disks, Single Plane(DCM,125208) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C) Cardiac Cycle Point:End Diastole(SRT,F-32011)
LVLs	LN	18076-0	Left Ventricle systolic major axis	Measurement Method:Method of Disks, Single Plane(DCM,125208) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C) Cardiac Cycle Point:Peak Systolic(SRT,F-32021)
LVAs	SRT	G-0374	Left Ventricular Systolic Area	Measurement Method:Method of Disks, Single Plane(DCM,125208) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C) Cardiac Cycle Point:Peak Systolic(SRT,F-32021)
EDVap	LN	18026-5	Left Ventricular End Diastolic Volume	Measurement Method:Method of Disks, Single Plane(DCM,125208) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
ESVap	LN	18148-7	Left Ventricular End Systolic Volume	Measurement Method:Method of Disks, Single Plane(DCM,125208) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
SVap	SRT	F-32120	Stroke Volume	Measurement Method:Method of Disks, Single Plane(DCM,125208) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
COap	SRT	F-32100	Cardiac Output	Measurement Method:Method of Disks, Single Plane(DCM,125208) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
EFap	LN	18043-0	Left Ventricular Ejection Fraction	Measurement Method:Method of Disks, Single Plane(DCM,125208) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
SIap	SRT	F-00078	Stroke Index	Measurement Method:Method of Disks, Single Plane(DCM,125208) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
CIap	SRT	F-32110	Cardiac Index	Measurement Method:Method of Disks, Single Plane(DCM,125208) Image Mode:2D mode(SRT,G-03A2) Image View:Apical Four Chamber(SRT,G-A19C)
HR	LN	8867-4	Heart Rate	Measurement Method:Method of Disks, Single Plane(DCM,125208) Image Mode:2D mode(SRT,G-03A2)

LVLd apical	LN	18077-8	Left Ventricle diastolic major axis	Image Mode:2D mode(SRT,G-03A2) Cardiac Cycle Point:End Diastole(SRT,F-32011)
LvdsaxMv	SRT	G-0375	Left Ventricular Diastolic Area	Image Mode:2D mode(SRT,G-03A2) Image View:Parasternal short axis at the Mitral Valve level(SRT, G-039A) Cardiac Cycle Point:End Diastole(SRT,F-32011)
LvdsaxPm	SRT	G-0375	Left Ventricular Diastolic Area	Image Mode:2D mode(SRT,G-03A2) Image View:Parasternal short axis at the Papillary Muscle level(SRT,G-039B) Cardiac Cycle Point:End Diastole(SRT,F-32011)
LVLs apical	LN	18076-0	Left Ventricle systolic major axis	Image Mode:2D mode(SRT,G-03A2) Cardiac Cycle Point:Peak Systolic(SRT,F-32021)
LvssaxMv	SRT	G-0374	Left Ventricular Systolic Area	Image Mode:2D mode(SRT,G-03A2) Image View:Parasternal short axis at the Mitral Valve level(SRT, G-039A) Cardiac Cycle Point:Peak Systolic(SRT,F-32021)
LvssaxPm	SRT	G-0374	Left Ventricular Systolic Area	Image Mode:2D mode(SRT,G-03A2) Image View:Parasternal short axis at the Papillary Muscle level(SRT,G-039B) Cardiac Cycle Point:Peak Systolic(SRT,F-32021)
EDV	LN	18026-5	Left Ventricular End Diastolic Volume	Measurement Method:Modified Simpson(DCM,125227) Image Mode:2D mode(SRT,G-03A2)
ESV	LN	18148-7	Left Ventricular End Systolic Volume	Measurement Method:Modified Simpson(DCM,125227) Image Mode:2D mode(SRT,G-03A2)
SV	SRT	F-32120	Stroke Volume	Measurement Method:Modified Simpson(DCM,125227) Image Mode:2D mode(SRT,G-03A2)
CO	SRT	F-32100	Cardiac Output	Measurement Method:Modified Simpson(DCM,125227) Image Mode:2D mode(SRT,G-03A2)
EF	LN	18043-0	Left Ventricular Ejection Fraction	Measurement Method:Modified Simpson(DCM,125227) Image Mode:2D mode(SRT,G-03A2)
SI	SRT	F-00078	Stroke Index	Measurement Method:Modified Simpson(DCM,125227) Image Mode:2D mode(SRT,G-03A2)
CI	SRT	F-32110	Cardiac Index	Measurement Method:Modified Simpson(DCM,125227) Image Mode:2D mode(SRT,G-03A2)
HR	LN	8867-4	Heart Rate	Measurement Method:Modified Simpson(DCM,125227) Image Mode:2D mode(SRT,G-03A2)
EDV	LN	18026-5	Left Ventricular End Diastolic Volume	Measurement Method:Bullet Method(DCM,125228) Image Mode:2D mode(SRT,G-03A2)
ESV	LN	18148-7	Left Ventricular End Systolic Volume	Measurement Method:Bullet Method(DCM,125228) Image Mode:2D mode(SRT,G-03A2)
SV	SRT	F-32120	Stroke Volume	Measurement Method:Bullet Method(DCM,125228) Image Mode:2D mode(SRT,G-03A2)
CO	SRT	F-32100	Cardiac Output	Measurement Method:Bullet Method(DCM,125228) Image Mode:2D mode(SRT,G-03A2)

EF	LN	18043-0	Left Ventricular Ejection Fraction	Measurement Method:Bullet Method(DCM,125228) Image Mode:2D mode(SRT,G-03A2)
SI	SRT	F-00078	Stroke Index	Measurement Method:Bullet Method(DCM,125228) Image Mode:2D mode(SRT,G-03A2)
CI	SRT	F-32110	Cardiac Index	Measurement Method:Bullet Method(DCM,125228) Image Mode:2D mode(SRT,G-03A2)
HR	LN	8867-4	Heart Rate	Measurement Method:Bullet Method(DCM,125228) Image Mode:2D mode(SRT,G-03A2)
IVSd:2D	LN	18154-5	Interventricular Septum Diastolic Thickness	Image Mode:2D mode(SRT,G-03A2)
LVIDd:2D	LN	29436-3	Left Ventricle Internal End Diastolic Dimension	Image Mode:2D mode(SRT,G-03A2)
LVPWd:2D	LN	18152-9	Left Ventricle Posterior Wall Diastolic Thickness	Image Mode:2D mode(SRT,G-03A2)
IVSs:2D	LN	18158-6	Interventricular Septum Systolic Thickness	Image Mode:2D mode(SRT,G-03A2)
LVIDs:2D	LN	29438-9	Left Ventricle Internal Systolic Dimension	Image Mode:2D mode(SRT,G-03A2)
LVPWs:2D	LN	18156-0	Left Ventricle Posterior Wall Systolic Thickness	Image Mode:2D mode(SRT,G-03A2)
EDV:2D	LN	18026-5	Left Ventricular End Diastolic Volume	Measurement Method:Cube Method(DCM,125206) Image Mode:2D mode(SRT,G-03A2)
ESV:2D	LN	18148-7	Left Ventricular End Systolic Volume	Measurement Method:Cube Method(DCM,125206) Image Mode:2D mode(SRT,G-03A2)
SV:2D	SRT	F-32120	Stroke Volume	Measurement Method:Cube Method(DCM,125206) Image Mode:2D mode(SRT,G-03A2)
CO:2D	SRT	F-32100	Cardiac Output	Measurement Method:Cube Method(DCM,125206) Image Mode:2D mode(SRT,G-03A2)
EF:2D	LN	18043-0	Left Ventricular Ejection Fraction	Measurement Method:Cube Method(DCM,125206) Image Mode:2D mode(SRT,G-03A2)
FS:2D	LN	18051-3	Left Ventricular Fractional Shortening	Measurement Method:Cube Method(DCM,125206) Image Mode:2D mode(SRT,G-03A2)
SI:2D	SRT	F-00078	Stroke Index	Measurement Method:Cube Method(DCM,125206) Image Mode:2D mode(SRT,G-03A2)
CI:2D	SRT	F-32110	Cardiac Index	Measurement Method:Cube Method(DCM,125206) Image Mode:2D mode(SRT,G-03A2)
HR:2D	LN	8867-4	Heart Rate	Measurement Method:Cube Method(DCM,125206) Image Mode:2D mode(SRT,G-03A2)
EDV:2D	LN	18026-5	Left Ventricular End Diastolic Volume	Measurement Method:Teichholz(DCM,125209) Image Mode:2D mode(SRT,G-03A2)
ESV:2D	LN	18148-7	Left Ventricular End Systolic Volume	Measurement Method:Teichholz(DCM,125209) Image Mode:2D mode(SRT,G-03A2)

SV:2D	SRT	F-32120	Stroke Volume	Measurement Method:Teichholz(DCM,125209) Image Mode:2D mode(SRT,G-03A2)
CO:2D	SRT	F-32100	Cardiac Output	Measurement Method:Teichholz(DCM,125209) Image Mode:2D mode(SRT,G-03A2)
EF:2D	LN	18043-0	Left Ventricular Ejection Fraction	Measurement Method:Teichholz(DCM,125209) Image Mode:2D mode(SRT,G-03A2)
FS:2D	LN	18051-3	Left Ventricular Fractional Shortening	Measurement Method:Teichholz(DCM,125209) Image Mode:2D mode(SRT,G-03A2)
SI:2D	SRT	F-00078	Stroke Index	Measurement Method:Teichholz(DCM,125209) Image Mode:2D mode(SRT,G-03A2)
CI:2D	SRT	F-32110	Cardiac Index	Measurement Method:Teichholz(DCM,125209) Image Mode:2D mode(SRT,G-03A2)
HR:2D	LN	8867-4	Heart Rate	Measurement Method:Teichholz(DCM,125209) Image Mode:2D mode(SRT,G-03A2)
EDV:2D	LN	18026-5	Left Ventricular End Diastolic Volume	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:2D mode(SRT,G-03A2)
ESV:2D	LN	18148-7	Left Ventricular End Systolic Volume	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:2D mode(SRT,G-03A2)
SV:2D	SRT	F-32120	Stroke Volume	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:2D mode(SRT,G-03A2)
CO:2D	SRT	F-32100	Cardiac Output	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:2D mode(SRT,G-03A2)
EF:2D	LN	18043-0	Left Ventricular Ejection Fraction	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:2D mode(SRT,G-03A2)
FS:2D	LN	18051-3	Left Ventricular Fractional Shortening	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:2D mode(SRT,G-03A2)
SI:2D	SRT	F-00078	Stroke Index	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:2D mode(SRT,G-03A2)
CI:2D	SRT	F-32110	Cardiac Index	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:2D mode(SRT,G-03A2)
HR:2D	LN	8867-4	Heart Rate	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:2D mode(SRT,G-03A2)
IVSd:M	LN	18154-5	Interventricular Septum Diastolic Thickness	Image Mode:M mode(SRT,G-0394)
LVIDd:M	LN	29436-3	Left Ventricle Internal End Diastolic Dimension	Image Mode:M mode(SRT,G-0394)
LVPWd:M	LN	18152-9	Left Ventricle Posterior Wall Diastolic Thickness	Image Mode:M mode(SRT,G-0394)
IVSs:M	LN	18158-6	Interventricular Septum Systolic Thickness	Image Mode:M mode(SRT,G-0394)
LVIDs:M	LN	29438-9	Left Ventricle Internal Systolic Dimension	Image Mode:M mode(SRT,G-0394)

LVPWs:M	LN	18156-0	Left Ventricle Posterior Wall Systolic Thickness	Image Mode:M mode(SRT,G-0394)
LVET:M	LN	20222-6	Ejection Time	Image Mode:M mode(SRT,G-0394)
EDV:M	LN	18026-5	Left Ventricular End Diastolic Volume	Measurement Method:Cube Method(DCM,125206) Image Mode:M mode(SRT,G-0394)
ESV:M	LN	18148-7	Left Ventricular End Systolic Volume	Measurement Method:Cube Method(DCM,125206) Image Mode:M mode(SRT,G-0394)
SV:M	SRT	F-32120	Stroke Volume	Measurement Method:Cube Method(DCM,125206) Image Mode:M mode(SRT,G-0394)
CO:M	SRT	F-32100	Cardiac Output	Measurement Method:Cube Method(DCM,125206) Image Mode:M mode(SRT,G-0394)
EF:M	LN	18043-0	Left Ventricular Ejection Fraction	Measurement Method:Cube Method(DCM,125206) Image Mode:M mode(SRT,G-0394)
FS:M	LN	18051-3	Left Ventricular Fractional Shortening	Measurement Method:Cube Method(DCM,125206) Image Mode:M mode(SRT,G-0394)
SI:M	SRT	F-00078	Stroke Index	Measurement Method:Cube Method(DCM,125206) Image Mode:M mode(SRT,G-0394)
CI:M	SRT	F-32110	Cardiac Index	Measurement Method:Cube Method(DCM,125206) Image Mode:M mode(SRT,G-0394)
HR:M	LN	8867-4	Heart Rate	Measurement Method:Cube Method(DCM,125206) Image Mode:M mode(SRT,G-0394)
mVcf:M	LN	59117-2	Mean Velocity of Circumferential Fiber Shortening (Mean VcFv)	Measurement Method:Cube Method(DCM,125206) Image Mode:M mode(SRT,G-0394)
EDV:M	LN	18026-5	Left Ventricular End Diastolic Volume	Measurement Method:Teichholz(DCM,125209) Image Mode:M mode(SRT,G-0394)
ESV:M	LN	18148-7	Left Ventricular End Systolic Volume	Measurement Method:Teichholz(DCM,125209) Image Mode:M mode(SRT,G-0394)
SV:M	SRT	F-32120	Stroke Volume	Measurement Method:Teichholz(DCM,125209) Image Mode:M mode(SRT,G-0394)
CO:M	SRT	F-32100	Cardiac Output	Measurement Method:Teichholz(DCM,125209) Image Mode:M mode(SRT,G-0394)
EF:M	LN	18043-0	Left Ventricular Ejection Fraction	Measurement Method:Teichholz(DCM,125209) Image Mode:M mode(SRT,G-0394)
FS:M	LN	18051-3	Left Ventricular Fractional Shortening	Measurement Method:Teichholz(DCM,125209) Image Mode:M mode(SRT,G-0394)
SI:M	SRT	F-00078	Stroke Index	Measurement Method:Teichholz(DCM,125209) Image Mode:M mode(SRT,G-0394)
CI:M	SRT	F-32110	Cardiac Index	Measurement Method:Teichholz(DCM,125209) Image Mode:M mode(SRT,G-0394)

HR:M	LN	8867-4	Heart Rate	Measurement Method:Teichholz(DCM,125209) Image Mode:M mode(SRT,G-0394)
mVcf:M	LN	59117-2	Mean Velocity of Circumferential Fiber Shortening (Mean VcFv)	Measurement Method:Teichholz(DCM,125209) Image Mode:M mode(SRT,G-0394)
EDV:M	LN	18026-5	Left Ventricular End Diastolic Volume	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:M mode(SRT,G-0394)
ESV:M	LN	18148-7	Left Ventricular End Systolic Volume	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:M mode(SRT,G-0394)
SV:M	SRT	F-32120	Stroke Volume	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:M mode(SRT,G-0394)
CO:M	SRT	F-32100	Cardiac Output	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:M mode(SRT,G-0394)
EF:M	LN	18043-0	Left Ventricular Ejection Fraction	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:M mode(SRT,G-0394)
FS:M	LN	18051-3	Left Ventricular Fractional Shortening	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:M mode(SRT,G-0394)
SI:M	SRT	F-00078	Stroke Index	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:M mode(SRT,G-0394)
CI:M	SRT	F-32110	Cardiac Index	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:M mode(SRT,G-0394)
HR:M	LN	8867-4	Heart Rate	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:M mode(SRT,G-0394)
mVcf:M	LN	59117-2	Mean Velocity of Circumferential Fiber Shortening (Mean VcFv)	Measurement Method:Gibson Method(99KMHC,KHU-400-00001) Image Mode:M mode(SRT,G-0394)
IVRT	LN	59083-6	Isovolumic Relaxation Time	Image Mode:Doppler Pulsed(SRT,R-409E4)
LVET:D	LN	20222-6	Ejection Time	Image Mode:Doppler Pulsed(SRT,R-409E4)
LVOT VTI	LN	20354-7	Velocity Time Integral	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
LVOT diam	SRT	G-038F	Cardiovascular Orifice Diameter	Image Mode:2D mode(SRT,G-03A2)
LVPEP:M	LN	59085-1	Pre-Ejection Period	Image Mode:M mode(SRT,G-0394)
LVSTI:M	LN	59088-5	Pre-Ejection Period/Ejection Time Ratio	Image Mode:M mode(SRT,G-0394)
LVOT Vmax	LN	11726-7	Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
LVOT PGmax	LN	20247-3	Peak Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)

LVOT PGmean	LN	20256-4	Mean Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
LVOT SV	SRT	F-32120	Stroke Volume	Measurement Method:Doppler Volume Flow(DCM,125219) Image Mode:Doppler Pulsed(SRT,R-409E4)
LVOT CO	SRT	F-32100	Cardiac Output	Measurement Method:Doppler Volume Flow(DCM,125219) Image Mode:Doppler Pulsed(SRT,R-409E4)
LVOT SI	SRT	F-00078	Stroke Index	Measurement Method:Doppler Volume Flow(DCM,125219) Image Mode:Doppler Pulsed(SRT,R-409E4)
LVOT CI	SRT	F-32110	Cardiac Index	Measurement Method:Doppler Volume Flow(DCM,125219) Image Mode:Doppler Pulsed(SRT,R-409E4)
LVOT HR	LN	8867-4	Heart Rate	Image Mode:Doppler Pulsed(SRT,R-409E4)
E'(m)	SRT	G-037A	Left Ventricular Peak Early Diastolic Tissue Velocity	Image Mode:Tissue Doppler Imaging(SRT,P5-B0128)
A'(m)	SRT	G-037C	LV Peak Diastolic Tissue Velocity During Atrial Systole	Image Mode:Tissue Doppler Imaging(SRT,P5-B0128)
E'/A'(m)	LN	59129-7	Left Ventricle E to A Tissue Velocity Ratio	Image Mode:Tissue Doppler Imaging(SRT,P5-B0128)
E/E'(m)	SRT	G-037B	Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave	
S'(m)	SRT	G-037D	Left Ventricular Peak Systolic Tissue Velocity	Image Mode:Tissue Doppler Imaging(SRT,P5-B0128)
E'(l)	SRT	G-037A	Left Ventricular Peak Early Diastolic Tissue Velocity	Image Mode:Tissue Doppler Imaging(SRT,P5-B0128)
A'(l)	SRT	G-037C	LV Peak Diastolic Tissue Velocity During Atrial Systole	Image Mode:Tissue Doppler Imaging(SRT,P5-B0128)
E'/A'(l)	LN	59129-7	Left Ventricle E to A Tissue Velocity Ratio	Image Mode:Tissue Doppler Imaging(SRT,P5-B0128)
E/E'(l)	SRT	G-037B	Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave	
S'(l)	SRT	G-037D	Left Ventricular Peak Systolic Tissue Velocity	Image Mode:Tissue Doppler Imaging(SRT,P5-B0128)
Mass:2D	LN	18087-7	Left Ventricle Mass	Measurement Method:CubeMethod(DCM,125206) Image Mode:2D mode(SRT,G-03A2)
Mass_c:2D	99KMHC	KHU-100-00011	Left Ventricular Mass (c)	Measurement Method:CubeMethod(DCM,125206) Image Mode:2D mode(SRT,G-03A2)

Mass-I:2D	99KMHC	KHU-100-00012	Left Ventricular Mass Index	Measurement Method:CubeMethod(DCM,125206) Image Mode:2D mode(SRT,G-03A2)
Mass-I_c:2D	99KMHC	KHU-100-00013	Left Ventricular Mass Index (c)	Measurement Method:CubeMethod(DCM,125206) Image Mode:2D mode(SRT,G-03A2)
Mass:M	LN	18087-7	Left Ventricle Mass	Measurement Method:CubeMethod(DCM,125206) Image Mode:M mode(SRT,G-0394)
Mass_c:M	99KMHC	KHU-100-00011	Left Ventricular Mass (c)	Measurement Method:CubeMethod(DCM,125206) Image Mode:M mode(SRT,G-0394)
Mass-I:M	99KMHC	KHU-100-00012	Left Ventricular Mass Index	Measurement Method:CubeMethod(DCM,125206) Image Mode:M mode(SRT,G-0394)
Mass-I_c:M	99KMHC	KHU-100-00013	Left Ventricular Mass Index (c)	Measurement Method:CubeMethod(DCM,125206) Image Mode:M mode(SRT,G-0394)

7.1.3.5 Right Ventricle

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
RVAWd:2D	LN	18153-7	Right Ventricle Anterior Wall Diastolic Thickness	Image Mode:2D mode(SRT,G-03A2)
RVDd:2D	LN	20304-2	Right Ventricular Internal Diastolic Dimension	Image Mode:2D mode(SRT,G-03A2)
RVDd:M	LN	20304-2	Right Ventricular Internal Diastolic Dimension	Image Mode:M mode(SRT,G-0394)
RV diam:2D	LN	20304-2	Right Ventricular Internal Diastolic Dimension	Image Mode:2D mode(SRT,G-03A2)
RV diam:M	LN	20304-2	Right Ventricular Internal Diastolic Dimension	Image Mode:M mode(SRT,G-0394)
RVET:D	LN	20222-6	Ejection Time	Image Mode:Doppler Pulsed(SRT,R-409E4)
TR RVSP	SRT	G-0380	Right Ventricular Peak Systolic Pressure	Image Mode:Doppler Pulsed(SRT,R-409E4)

7.1.3.6 Left Atrium

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
LA diam:2D	LN	29469-4	Left Atrium Antero-posterior Systolic Dimension	Image Mode:2D mode(SRT,G-03A2)
LA diam:M	LN	29469-4	Left Atrium Antero-posterior Systolic Dimension	Image Mode:M mode(SRT,G-0394)

7.1.3.7 Right Atrium

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
TR RAP	LN	18070-3	Right Atrium Systolic Pressure	Image Mode:Doppler Pulsed(SRT,R-409E4)

7.1.3.8 Aortic Valve

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
ACS:M	LN	17996-0	Aortic Valve Cusp Separation	Image Mode:M mode(SRT,G-0394)
AO/LA:2D	99KMHC	KHU-100-00008	Aortic Root to Left Atrium Ratio	Image Mode:2D mode(SRT,G-03A2)
LA/AO:2D	LN	17985-3	Left Atrium to Aortic Root Ratio	Image Mode:2D mode(SRT,G-03A2)
AO/LA:M	99KMHC	KHU-100-00008	Aortic Root to Left Atrium Ratio	Image Mode:M mode(SRT,G-0394)
LA/AO:M	LN	17985-3	Left Atrium to Aortic Root Ratio	Image Mode:M mode(SRT,G-0394)

AV VTI	LN	20354-7	Velocity Time Integral	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
AV Vmax	LN	11726-7	Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
AV Vmean	LN	20352-1	Mean Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
AV PGmax	LN	20247-3	Peak Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
AV PGmean	LN	20256-4	Mean Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
AVA(VTI)	SRT	G-038E	Cardiovascular Orifice Area	Measurement Method:Continuity Equation by Velocity Time Integral(DCM,125215) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
AVA(Vmax)	SRT	G-038E	Cardiovascular Orifice Area	Measurement Method:Continuity Equation by Peak Velocity(DCM,125214) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
AVA(Trace)	SRT	G-038E	Cardiovascular Orifice Area	Measurement Method:Planimetry(DCM,125220) Image Mode:Doppler Pulsed(SRT,R-409E4)
LVPEP:D	LN	59085-1	Pre-Ejection Period	Image Mode:Doppler Pulsed(SRT,R-409E4)
LVAccTime	LN	20168-1	Acceleration Time	Image Mode:Doppler Pulsed(SRT,R-409E4)
LV PEP/ET	LN	59088-5	Pre-Ejection Period/Ejection Time Ratio	Image Mode:Doppler Pulsed(SRT,R-409E4)
LV Acce T/ET	SRT	G-0382	Ratio of Aortic Valve Acceleration Time to Ejection Time	Image Mode:Doppler Pulsed(SRT,R-409E4)
Decel Rate	LN	20216-8	Deceleration Slope	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)
AR Vmax	LN	11726-7	Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)
AR PGmax	LN	20247-3	Peak Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)
AR V ed	LN	11653-3	End Diastolic Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)
AR Time	LN	20217-6	Deceleration Time	Image Mode:Doppler Pulsed(SRT,R-409E4)
AI Vmax	99KMHC	KHU-100-00014	Aortic Insufficiency maximum Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)
AI PGmax	99KMHC	KHU-100-00015	Aortic Insufficiency maximum Pressure Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)

AI PHT	LN	20280-4	Pressure Half-Time	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)
AI Dec Time	99KMHC	KHU-100-00016	Aortic Insufficiency Deceleration Time	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)
AI Dec Slope	99KMHC	KHU-100-00017	Aortic Insufficiency Deceleration Slope	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)

7.1.3.9 Mitral Valve

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
EPSS:2D	LN	59098-4	Mitral Valve E-septal Separation	Image Mode:2D mode(SRT,G-03A2)
MV E pt	LN	18037-2	Mitral Valve E-Wave Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4)
MV A pt	LN	17978-8	Mitral Valve A-Wave Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4)
Dec Time	SRT	G-0384	Mitral Valve E-Wave Deceleration Time	Image Mode:Doppler Pulsed(SRT,R-409E4)
Dec Slope	LN	20216-8	Deceleration Slope	Image Mode:Doppler Pulsed(SRT,R-409E4)
MV Vmax	LN	11726-7	Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MV Vmean	LN	20352-1	Mean Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MV PGmax	LN	20247-3	Peak Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MV PGmean	LN	20256-4	Mean Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MV VTI	LN	20354-7	Velocity Time Integral	Image Mode:Doppler Pulsed(SRT,R-409E4)
MV PHT	LN	20280-4	Pressure Half-Time	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MV diam	SRT	G-038F	Cardiovascular Orifice Diameter	Image Mode:Doppler Pulsed(SRT,R-409E4)
MV E duration	99KMHC	KHU-100-00002	Mitral Valve E-Wave Duration	Image Mode:Doppler Pulsed(SRT,R-409E4)
MV A duration	SRT	G-0385	Mitral Valve A-Wave Duration	Image Mode:Doppler Pulsed(SRT,R-409E4)

MV SV	SRT	F-32120	Stroke Volume	Measurement Method:Doppler Volume Flow(DCM,125219) Image Mode:Doppler Pulsed(SRT,R-409E4)
MV CO	SRT	F-32100	Cardiac Output	Measurement Method:Doppler Volume Flow(DCM,125219) Image Mode:Doppler Pulsed(SRT,R-409E4)
MV SI	SRT	F-00078	Stroke Index	Measurement Method:Doppler Volume Flow(DCM,125219) Image Mode:Doppler Pulsed(SRT,R-409E4)
MV CI	SRT	F-32110	Cardiac Index	Measurement Method:Doppler Volume Flow(DCM,125219) Image Mode:Doppler Pulsed(SRT,R-409E4)
MV E/A:D	LN	18038-0	Mitral Valve E to A Ratio	Image Mode:Doppler Pulsed(SRT,R-409E4)
MV A/E:D	99KMHC	KHU-100-00003	Mitral Valve A to E Ratio	Image Mode:Doppler Pulsed(SRT,R-409E4)
MVA(PHT)	SRT	G-038E	Cardiovascular Orifice Area	Measurement Method:Area by PHT(DCM,125210) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MVA(VTI)	SRT	G-038E	Cardiovascular Orifice Area	Measurement Method:Continuity Equation(DCM,125212) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MVA(Trace)	SRT	G-038E	Cardiovascular Orifice Area	Measurement Method:Planimetry(DCM,125220) Image Mode:2D mode(SRT,G-03A2) Direction of Flow:Antegrade Flow(SRT,R-42047)
MV HR	LN	8867-4	Heart Rate	Image Mode:Doppler Pulsed(SRT,R-409E4)
E/E'(m)	SRT	G-037B	Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave	
E/E'(l)	SRT	G-037B	Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave	
MV E amp:M	99KMHC	KHU-100-00004	Mitral Valve E-Wave Amplitude	Image Mode:M mode(SRT,G-0394)
MV A amp:M	99KMHC	KHU-100-00005	Mitral Valve A-Wave Amplitude	Image Mode:M mode(SRT,G-0394)
DEexcursion	LN	17997-8	Mitral Valve D-E Excursion	Image Mode:M mode(SRT,G-0394)
DE amp:M	99KMHC	KHU-100-00006	D-E Amplitude of the Anterior Mitral Leaflet	Image Mode:M mode(SRT,G-0394)
EPSS:M	LN	18036-4	Mitral Valve EPSS, E wave	Image Mode:M mode(SRT,G-0394)
EF slope:M	LN	18040-6	Mitral Valve E-F Slope by M-Mode	Image Mode:M mode(SRT,G-0394)
MV A/E amp:M	99KMHC	KHU-100-00007	Mitral Valve ratio of the A point to the E point	Image Mode:M mode(SRT,G-0394)

MR Vmax	LN	11726-7	Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,R-42E61)
MR PGmax	LN	20247-3	Peak Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,R-42E61)
dt	LN	20217-6	Deceleration Time	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,R-42E61)
dP/dt	LN	18035-6	Mitral Regurgitation dP/dt derived from Mitral Reg. velocity	Image Mode:Doppler Pulsed(SRT,R-409E4)
MR Radius	LN	59102-4	Flow Radius	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,R-42E61)
MRAliasVel	LN	59130-5	Alias Velocity	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,R-42E61)
MR VTI	LN	20354-7	Velocity Time Integral	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,R-42E61)
MRFlowRate	LN	34141-2	Peak Instantaneous Flow Rate	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,R-42E61)
EO Area	SRT	G-038E	Cardiovascular Orifice Area	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,R-42E61)
MR Flow Vol	LN	33878-0	Volume Flow	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,R-42E61)
MS Radius	LN	59102-4	Flow Radius	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MSAliasVel	LN	59130-5	Alias Velocity	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MS VTI	LN	20354-7	Velocity Time Integral	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)

MS Vmax	LN	11726-7	Peak Velocity	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MS PGmax	LN	20247-3	Peak Gradient	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MS Angle	99KMHC	KHU-100-00010	Angle	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MSFlowRate	LN	34141-2	Peak Instantaneous Flow Rate	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MS Flow Vol	LN	33878-0	Volume Flow	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
MVA	SRT	G-038E	Cardiovascular Orifice Area	Measurement Method:Proximal Isovelocity Surface Area(DCM,125216) Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)

7.1.3.10 Pulmonic Valve

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
PV VTI	LN	20354-7	Velocity Time Integral	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
PV Vmax	LN	11726-7	Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
PV Vmean	LN	20352-1	Mean Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
PV PGmax	LN	20247-3	Peak Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
PV PGmean	LN	20256-4	Mean Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
RVOT VTI	LN	20354-7	Velocity Time Integral	Image Mode:Doppler Pulsed(SRT,R-409E4) Image View:Right Ventricular Outflow Tract View(SRT,G-039D)
RVOT Vmax	LN	11726-7	Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Image View:Right Ventricular Outflow Tract View(SRT,G-039D)

RVOT Vmean	LN	20352-1	Mean Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Image View:Right Ventricular Outflow Tract View(SRT,G-039D)
RVOT PGmax	LN	20247-3	Peak Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Image View:Right Ventricular Outflow Tract View(SRT,G-039D)
RVOT PGmean	LN	20256-4	Mean Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Image View:Right Ventricular Outflow Tract View(SRT,G-039D)
RVOT diam	SRT	G-038F	Cardiovascular Orifice Diameter	Image Mode:Doppler Pulsed(SRT,R-409E4) Image View:Right Ventricular Outflow Tract View(SRT,G-039D)
RVOT SV	SRT	F-32120	Stroke Volume	Measurement Method:Doppler Volume Flow(DCM,125219) Image Mode:Doppler Pulsed(SRT,R-409E4) Image View:Right Ventricular Outflow Tract View(SRT,G-039D)
RVOT CO	SRT	F-32100	Cardiac Output	Measurement Method:Doppler Volume Flow(DCM,125219) Image Mode:Doppler Pulsed(SRT,R-409E4) Image View:Right Ventricular Outflow Tract View(SRT,G-039D)
RVOT SI	SRT	F-00078	Stroke Index	Measurement Method:Doppler Volume Flow(DCM,125219) Image Mode:Doppler Pulsed(SRT,R-409E4) Image View:Right Ventricular Outflow Tract View(SRT,G-039D)
RVOT CI	SRT	F-32110	Cardiac Index	Measurement Method:Doppler Volume Flow(DCM,125219) Image Mode:Doppler Pulsed(SRT,R-409E4) Image View:Right Ventricular Outflow Tract View(SRT,G-039D)
RVOT HR	LN	8867-4	Heart Rate	Image Mode:Doppler Pulsed(SRT,R-409E4)
RVPEP:D	LN	20301-8	Right Ventricle Pre-Ejection Period	Image Mode:Doppler Pulsed(SRT,R-409E4)
RVAccTime	LN	20168-1	Acceleration Time	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,R-42E61)
RV PEP/ET	LN	59088-5	Pre-Ejection Period/Ejection Time Ratio	Image Mode:Doppler Pulsed(SRT,R-409E4)
RV Acce T/ET	SRT	G-0388	Ratio of Pulmonic Valve Acceleration Time to Ejection Time	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,R-42E61)
PREDV	LN	11653-3	End Diastolic Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Cardiac Cycle Point:End Diastole(SRT,F-32011)
PREDPG	99KMHC	KHU-100-00009	End Diastolic Pressure Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Cardiac Cycle Point:End Diastole(SRT,F-32011)

7.1.3.11 Tricuspid Valve

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
TV VTI	LN	20354-7	Velocity Time Integral	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
TV Vmax	LN	11726-7	Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
TV PGmax	LN	20247-3	Peak Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
TV Vmean	LN	20352-1	Mean Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
TV PGmean	LN	20256-4	Mean Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Antegrade Flow(SRT,R-42047)
TV E pt	LN	18031-5	Tricuspid Valve E Wave Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4)
TV A pt	LN	18030-7	Tricuspid Valve A Wave Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4)
TV E/A	LN	18039-8	Tricuspid Valve E to A Ratio	Image Mode:Doppler Pulsed(SRT,R-409E4)
TR Vmax	LN	11726-7	Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)
TR Vmean	LN	20352-1	Mean Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)
TR PGmax	LN	20247-3	Peak Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)
TR PGmean	LN	20256-4	Mean Gradient	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)
TR VTI	LN	20354-7	Velocity Time Integral	Image Mode:Doppler Pulsed(SRT,R-409E4) Direction of Flow:Regurgitant Flow(SRT,G-0367)

7.1.3.12 Aorta

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
AO:2D	LN	18015-8	Aortic Root Diameter	Image Mode:2D mode(SRT,G-03A2)
AO:M	LN	18015-8	Aortic Root Diameter	Image Mode:M mode(SRT,G-0394)

7.1.3.13 Pulmonary Venous Structure

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
PVs1 Vel	99KMHC	KHU-100-00018	Pulmonary Vein First Systolic Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Cardiac Cycle Point:Systolic(SRT,F-32020)
PVs2 Vel	LN	29450-4	Pulmonary Vein Systolic Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Cardiac Cycle Point:Systolic(SRT,F-32020)
PVd Vel	LN	29451-2	Pulmonary Vein Diastolic Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Cardiac Cycle Point:Diastole(SRT,F-32010)
PVa Vel	LN	29453-8	Pulmonary Vein Atrial Contraction Reversal Peak Velocity	Image Mode:Doppler Pulsed(SRT,R-409E4) Cardiac Cycle Point:Diastole(SRT,F-32010)
PVa duration	SRT	G-038B	Pulmonary Vein A-Wave Duration	Image Mode:Doppler Pulsed(SRT,R-409E4) Cardiac Cycle Point:Atrial Systole(SRT,F-32030)
PVs VTI	SRT	G-038C	Pulmonary Vein S-Wave Velocity Time Integral	Image Mode:Doppler Pulsed(SRT,R-409E4) Cardiac Cycle Point:Systolic(SRT,F-32020)
PVd VTI	SRT	G-038D	Pulmonary Vein D-Wave Velocity Time Integral	Image Mode:Doppler Pulsed(SRT,R-409E4) Cardiac Cycle Point:Diastole(SRT,F-32010)
PVs2/PVd	LN	29452-0	Pulmonary Vein Systolic to Diastolic Ratio	Image Mode:Doppler Pulsed(SRT,R-409E4)
PVd DecT	LN	20217-6	Deceleration Time	Image Mode:Doppler Pulsed(SRT,R-409E4) Cardiac Cycle Point:Diastole(SRT,F-32010)
Sys Fraction	LN	59113-1	Pulmonary Vein A VTI to Mitral Valve VTI Ratio	Image Mode:Doppler Pulsed(SRT,R-409E4)

7.1.3.14 Cardiac Shunt Study

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
Qp/Qs	LN	29462-9	Pulmonary-to-Systemic Shunt Flow Ratio	Measurement Method:Doppler Volume Flow(DCM,125219) Image Mode:Doppler Pulsed(SRT,R-409E4)

7.1.3.15 Vena Cava

Label	Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)	Modifiers
E-diam:2D	LN	18006-7	Inferior Vena Cava Diameter	Image Mode:2D mode(SRT,G-03A2) Respiratory Cycle Point:Expiration(SRT,F-20020)
I-diam:2D	LN	18006-7	Inferior Vena Cava Diameter	Image Mode:2D mode(SRT,G-03A2 Respiratory Cycle Point:Inspiration(SRT,F-20010)
E-diam:M	LN	18006-7	Inferior Vena Cava Diameter	Image Mode:M mode(SRT,G-0394) Respiratory Cycle Point:Expiration(SRT,F-20020)
I-diam:M	LN	18006-7	Inferior Vena Cava Diameter	Image Mode:M mode(SRT,G-0394) Respiratory Cycle Point:Inspiration(SRT,F-20010)

KONICA MINOLTA

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