# DICOM Conformance Statement

iU22 Release 4.0.X.X iE33 Release 4.0.X.X 453561239620009 Rev F, 2007-09-01



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### 0.1 REVISION HISTORY

Document Version	Date of Issue	Author	Description
D			Volumetric Imaging Linked Measurements to Images
E	2007-08-28		Software Level correction
F	2007-09-11		Part number and Rev level correction

#### 1 **CONFORMANCE STATEMENT OVERVIEW**

The Philips iU22 and iE33 Ultrasound systems implement the necessary DICOM<sup>®</sup> services to download worklists from an information system, save acquired US Images and Structured Reports to a network storage device, CD or DVD, print to a networked hardcopy device and inform the information system about the work actually done.

Table 1 provides an overview of the supported network services.

Networking SOP Classes	User of Service (SCU)	Provider of Service (SCP)
Transfer		
Ultrasound Image Storage	Yes*	No
Ultrasound Multiframe Image Storage	Yes*	No
Storage Commitment Push Model	Yes*	No
Comprehensive SR	Yes*	No
Private 3D Presentation State	Yes*	No
Workflow Management		
Modality Worklist	Yes*	No
Modality Performed Procedure Step	Yes*	No
Print Management		
Basic Grayscale Print Management	Yes	No
Basic Color Print Management	Yes	No

Table 1

\* Purchasable option "Netlink DICOM 3.0". DICOM Printing does not require an option.

Table 2 specifies the Media Storage Application Profiles supported.

MEDIA SERVICES				
Media Storage Application Profile	Write Files (FSC or FSU)	Read Files (FSR)		
Compact Disk - Recordable				
STD-US-SC-SF&MF-CDR	Yes / Yes	Yes <sup>(1)(2)</sup>		
DVD				
STD-US-SC-SF&MF-DVD	Yes / Yes	Yes <sup>(1)(2)</sup>		

Table 2

(1) Structured Reports cannot be imported.

(2) Only reads and imports data from other Philips iE33 and iU22 systems of the same software version.

<sup>&</sup>lt;sup>®</sup> DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.

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# 2 TABLE OF CONTENTS

	0.1	REVISION HISTORY	2
1	CONFOR	MANCE STATEMENT OVERVIEW	3
2	TABLE O	F CONTENTS	5
3	INTROD	JCTION	10
	3.1	AUDIENCE	
	3.2	REMARKS	
	3.3	DEFINITIONS, TERMS AND ABBREVIATIONS	
	3.4	REFERENCES	
4	-	RKING	
4	4.1	IMPLEMENTATION MODEL	
	4.1.1		
	4.1.2		12
		4.1.2.1 Functional Definition of Storage Application Entity	14
		4.1.2.2 Functional Definition of Workflow Application Entity	
	4.1.3	4.1.2.3 Functional Definition of Hardcopy Application Entity Sequencing of Real-World Activities	
	4.2	AE SPECIFICATIONS	
	4.2.1		
		4.2.1.1 SOP Classes	19
		4.2.1.2 Association Establishment Policy 4.2.1.2.1 General	
		4.2.1.2.1 Veneral	
		4.2.1.2.3 Asynchronous Nature	19
		4.2.1.2.4 Implementation Identifying Information	
		4.2.1.3 Association Initiation Policy 4.2.1.3.1 Activity – Store Images, Loops and Structured Reports	
		4.2.1.3.1.1 Description and Sequencing of Activities	20
		4.2.1.3.1.2 Proposed Presentation Contexts	22
		4.2.1.3.1.3 SOP Specific Conformance for Image and Comprehensive Stru Report Storage SOP Classes	
		4.2.1.3.1.4 SOP Specific Conformance for Storage Commitment Push Mo	
		SOP Class	25
		4.2.1.3.1.4.1 Storage Commitment Operations (N-ACTION)	25
		4.2.1.3.1.4.2 Storage Commitment Tags (N-ACTION) 4.2.1.3.1.4.3 Storage Commitment Notifications (N-EVENT-REPOR	25 T)26
		4.2.1.3.1.4.4 Storage Commitment Tags (N-EVENT-REPORT)	
		4.2.1.4 Association Acceptance Policy	
		4.2.1.4.1 Activity – Receive Storage Commitment Response 4.2.1.4.1.1 Description and Sequencing of Activities	
		4.2.1.4.1.1 Description and Sequencing of Activities	
		4.2.1.4.1.3 SOP Specific Conformance for Storage Commitment Push Mo	
		SOP Class	27 T) 07
	4.2.2	4.2.1.4.1.3.1 Storage Commitment Notifications (N-EVENT-REPOR Workflow Application Entity Specification	
	7.2.2	4.2.2.1 SOP Classes	
		4.2.2.2 Association Establishment Policy	28
		4.2.2.2.1 General	
		4.2.2.2.2 Number of Associations	28

		4.2.2.		Asynchronous Nature	
		4.2.2.		Implementation Identifying Information	.28
		4.2.2.3		nitiation Policy	.29
		4.2.2.		Activity – Worklist Update	.29
			4.2.2.3.1.1	Description and Sequencing of Activities	.29
			4.2.2.3.1.2	Proposed Presentation Contexts	.30
			4.2.2.3.1.3	SOP Specific Conformance for Modality Worklist	.30
		4.2.2.		Activity –Acquire Images	.33
			4.2.2.3.2.1	Description and Sequencing of Activities	.33
			4.2.2.3.2.2	Proposed Presentation Contexts	.35
			4.2.2.3.2.3	SOP Specific Conformance for MPPS	.35
		4.2.2.4		Acceptance Policy	
	4.2.3			on Entity Specification	
		4.2.3.1		S	
		4.2.3.2		Establishment Policy	
		4.2.3. 4.2.3.		General Number of Associations	
		4.2.3. 4.2.3.		Asynchronous Nature	
		4.2.3.		Implementation Identifying Information	00. 00
		4.2.3.		nitiation Policy	20.
		4.2.3.3		Activity – Film Images	
		4.2.3.	4.2.3.3.1.1	Description and Sequencing of Activities	
			4.2.3.3.1.2	Proposed Presentation Contexts	
			4.2.3.3.1.3	Common SOP Specific Conformance for all Print SOP Classes.	
			4.2.3.3.1.4	SOP Specific Conformance for the Printer SOP Class	
				8.1.4.1 Printer SOP Class Operations (N-GET)	40
				6.1.4.2 Printer SOP Class Notifications (N-EVENT-REPORT)	
				SOP Specific Conformance for the Film Session SOP Class	
				6.1.5.1 Film Session SOP Class Operations (N-CREATE)	
				SOP Specific Conformance for the Film Box SOP Class	
				6.1.7.1 Film Box SOP Class Operations (N-CREATE)	
				5.1.7.2 Film Box SOP Class Operations (N-ACTION)	
			4.2.3.3.1.8	SOP Specific Conformance for the Image Box SOP Class	
				1.8.1 Image Box SOP Class Operations (N-SET)	.44
		4.2.3.4		Acceptance Policy	.45
	4.2.4	Verifi		tion Entity specification	
		4.2.4.1	SOP Class		.45
		4.2.4.2	Association I	Establishment Policy	.45
		4.2.4.	2.1	General	
		4.2.4.	2.2	Number of Associations	.45
		4.2.4.	2.3	Asynchronous Nature	.46
		4.2.4.		Implementation Identifying Information	
		4.2.4.3	Association I	nitiation Policy	.46
		4.2.4.		Activity – Verify as SCU and SCP	
		4.2.4.		Description and Sequencing of Activities	
		4.2.4.		Proposed Presentation Contexts	
		4.2.4.		SOP Specific Conformance for Verification	
			4.2.4.3.4.1	Verification SOP Class Operations (C-ECHO)	
		4.2.4.		Association Acceptance Policy	
			4.2.4.3.5.1	Verification SOP Class Notifications	
4.3				NTERFACES	
	4.3.1	Supp	orted Commu	nication Stacks	.50
		4.3.1.1		κ	
	4.3.2	Physi	cal Network I	nterface	.50
4.4		CONFIGUR	ATION		.50
	AE Ti			Mapping	
		4.4.1.1		e	
		· · · · ·			

		4.4.1.2 Remote AE Title/Presentation Address Mapping	
		4.4.1.2.1 Image and Structured Report Storage	
		4.4.1.2.1.1 Advanced Archive Device Association Timeout Configuration .	
		4.4.1.2.1.2 Serial Structured Report Storage Configuration	
		4.4.1.2.2 Workflow	
		4.4.1.2.3 Hardcopy	
5	MEDIA S	TORAGE	
	5.1	IMPLEMENTATION MODEL	52
	5.1.1	Application Data Flow	
	5.1.2		
		5.1.2.1 Functional Definition of Media Application Entity	
	5.1.3		
	5.1.4	File Meta Information Options	
	5.2	AE SPECIFICATIONS	
	5.2.1	Media Application Entity Specification	
		5.2.1.1 File Meta Information for the Application Entity	
		5.2.1.2 Real-World Activities	
		5.2.1.2.1 Activity – Send to Media	
		5.2.1.2.2 Activity – Import from Media	
		5.2.1.2.3 Activity – Update to Media	54
		5.2.1.2.3.1 Media Storage Application Profiles	
~		5.2.1.2.3.2 Options	
6 7		T OF CHARACTER SETS	
7		Υ	
8		S	
	8.1	CREATED IOD INSTANCES	
	8.1.1	US or US Multiframe Image IOD	
	8.1.2		
	8.1.3		
	8.1.4		60
	8.1.5		
	8.2	USED FIELDS IN RECEIVED IOD BY APPLICATION	
	8.3	ATTRIBUTE MAPPING	
	8.4	COERCED/MODIFIED FIELDS	71
	8.5	CONTROLLED TERMINOLOGY	71
	8.6	GRAYSCALE IMAGE CONSISTENCY	71
	8.7	EXTENSIONS / SPECIALIZATIONS / PRIVATIZATIONS	71
	8.7.1	Standard Extended / Specialized / Private SOPs	71
	8.7.2		
	-	8.7.2.1 3D Presentation State SOP Class	72
		8.7.2.2 Association Establishment Policy	
		8.7.2.2.1 General	72
		8.7.2.2.2 Number of Associations	
		8.7.2.2.3 Asynchronous Nature	
		8.7.2.2.4 Implementation Identifying Information	
		8.7.2.3 Association Initiation Policy	73
		8.7.2.3.1 Activity – Store a Private 3D Presentation state	
		8.7.2.3.2 Description and Sequencing of Activities	
		8.7.2.3.3 Proposed Presentation Contexts	73
		8.7.2.3.4 SOP Specific Conformance for storage of a Private 3D	

	Presentation State	73
8	8.8 PRIVATE TRANSFER SYNTAXES	74
APP	ENDIX A – Structured Reports	75
A	A.1 STRUCTURED REPORTS	75
	A.1.1 Introduction	75
	A.1.2 Clinical Scope	
ŀ	APPLICATIONS THAT EXPORT STRUCTURED REPORTS FROM IU22 AND IE33	
	Patient Data Entry (PDE) and Study Info Mapping	76
	Date Data Sent with All Reports, not entered in PDE	
-	General PDE / Study Info TID 5000 OB-GYN ULTRASOUND PROCEDURE REPORT	
	Reference for the columns in the mapping table to TID 5000 Application: OB, Measurements	70
	Application: OB, Calculations	
	Application: Gyn, Measurements	
	Application: Gyn, Calculations	
	OB Authors	
	Gestational Age Estimated Fetal Weight	85 85
	Fetal Weight Percentile	
	Application: OB, Concepts	
	OB Study Info	
	GYN Study Info	89
	Additional Codes and Modifiers Used OB-GYN – TID5000	89 89
-	TID 5100 VASCULAR ULTRASOUND PROCEDURE REPORT	
	Reference for the columns in the mapping table to TID 5100	
	Application: Vascular, Measurements	
	Application: Vascular, Calculations	
	Application: Abdomen, Measurements	
	Application: Abdomen, Calculations	93
	Application: Vascular, Abdominal, TCD, Anatomical Locations Vascular PDE / Study Info	93
	Abdominal PDE / Study Info	
	Additional Codes and Modifiers Used	96
	VASCULAR – TID5100	
٦	TID 5200 ADULT ECHOCARDIOGRAPHY PROCEDURE REPORT	
	Reference for the columns in the mapping table to TID 5200	
	Application: Adult Echo, Measurements Application: Adult Echo, Calculations	
	Application: Adult Echo, Concepts	
	Adult Echo PDE / Study Info	
	Additional Codes and Modifiers Used	
	ADULT ECHO – TID5200	
	TID 995300 PEDIATRIC ECHO PROCEDURE REPORT	116
	Reference for the columns in the mapping tables in TID 995300, reference DICOM	110
	Supplement 78 Application: Pediatric Echo, Measurements	
	Application: Pediatric Echo, Calculations	
	Application: Pediatric Echo, Concepts	127
	Pediatric Echo PDE / Study Info	130
	Additional Codes and Modifiers Used Pediatric Echo – TID995300	130
Drive	ate Template Extensions	
LU105	אנב ו פוווטומנב באנפווטווט	132

TID5001: OB-GYN PATIENT CHARACTERISTICS	132
TID5008: FETAL BIOMETRY GROUP	132
TID5101: VASCULAR PATIENT CHARACTERISTICS	132
TID5202: ECHOCARDIOGRAPHY PATIENT CHARACTERISTICS	133
TID5203: ECHO MEASUREMENT	133
User-defined measurements and calculations	134
DESCRIPTION	134
STRUCTURE	134
TEMPLATE DEFINITION	135
Private Template and Template Extensions	135
TID5000: OB-GYN Ultrasound Procedure Report	135
TID5100: Vascular Ultrasound Report	
TID5200: Echocardiography Procedure Report	135
TID995300: Pediatric Echocardiography Procedure Report	135
TID9900: User-defined concepts	135
TID9901: User-defined concept	
TID9902: Fetal Heart Section TID 5009: Fetal Biophysical Profile Section	
TID 5009. Pelvis and Uterus Section	130
Context Group 99008: Measurement Results (from Tools & Results tab in Analysis Config)	137
Data Dictionary	
PDE AND STUDY INFO	
Context: 99002, General PDE fields	
Context: 99003, OB Study Info	139
Context: 99004, GYN Study Info	
Context: 99005, Vascular Study Info	
Context: 99006, Abdominal Study Info	
Context: 99007, Adult Echo Study Info	
Context: 995300, Pediatric Echo Study Info	
MEASUREMENT CONTEXTS	142
Table of Units Codes	
OB only and patient characteristics:	
APPENDIX B – BULK PRIVATE TAGS	
B.1 BULK PRIVATE TAGS	143

## 3 INTRODUCTION

#### 3.1 AUDIENCE

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

#### 3.2 REMARKS

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

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

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

The user should be aware of the following important issues:

- The comparison of different conformance statements is the first step towards assessing interconnectivity between Philips Medical Systems and non - Philips Medical Systems equipment.
- Test procedures should be defined to validate the desired level of connectivity.
- The DICOM standard will evolve to meet the users' future requirements. Philips Medical Systems is
  actively involved in developing the standard further and therefore reserves the right to make changes to
  its products or to discontinue its delivery.
- This DICOM Conformance Statement reports the implementation of two ultrasound systems, the iU22 and iE33 with release 4.0.X.X.

#### 3.3 DEFINITIONS, TERMS AND ABBREVIATIONS

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

Abbreviations and terms are as follows:

AE	DICOM Application Entity
AET	Application Entity Title
ASCE	Association Control Service Element
CD-R	Compact Disk Recordable
CSE	Customer Service Engineer
DICOM	Digital Imaging and Communications in Medicine
FSC	File-Set Creator
FSU	File-Set Updater
FSR	File-Set Reader
GSDF	Grayscale Standard Display Function
IOD	(DICOM) Information Object Definition

ISO	International Standard Organization
LOINC	Logical Observation Identifiers Names and Codes
MPPS	Modality Performed Procedure Step
MSPS	Modality Scheduled Procedure Step
MWL	Modality Worklist
R	Required Key Attribute
0	Optional Key Attribute
PDU	DICOM Protocol Data Unit
PDE	Patient Data Entry
SCU	DICOM Service Class User (DICOM client)
SCP	DICOM Service Class Provider (DICOM server)
SOP	DICOM Service-Object Pair
SNOMED	Systematized Nomenclature of Medicine (SRT)
U	Unique Key Attribute
US	Ultrasound

#### 3.4 REFERENCES

[DICOM] Digital Imaging and Communications in Medicine (DICOM), NEMA PS 3.1-3.18, 2006

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Integrated Healthcare Enterprise (IHE) Radiology Technical Framework, Vol. 3, Transactions continued, version 6.0 Final Text May 12, 2005

Integrated Healthcare Enterprise (IHE) Cardiology Technical Framework, Vol. 1, Integration Profiles, Trial Implementation, version 2.0, June 27, 2005

Integrated Healthcare Enterprise (IHE) Cardiology Technical Framework, Vol. 2, Transactions, Trial Implementation, version 2.0, June 27, 2005

Integrated Healthcare Enterprise (IHE) Cardiology Technical Framework, supplement 2005, Cath Evidence Option and Echo Evidence Option for the Evidence Documents Profile, Trial Implementation, version 0.10, June 27, 2005

VistA DICOM Conformance Requirements for Image Acquisition Modalities in Radiology and Other Specialties, Department of Veterans Affairs, version 2.3 January 3, 2003

## 4 NETWORKING

#### 4.1 IMPLEMENTATION MODEL

#### 4.1.1 Application Data Flow

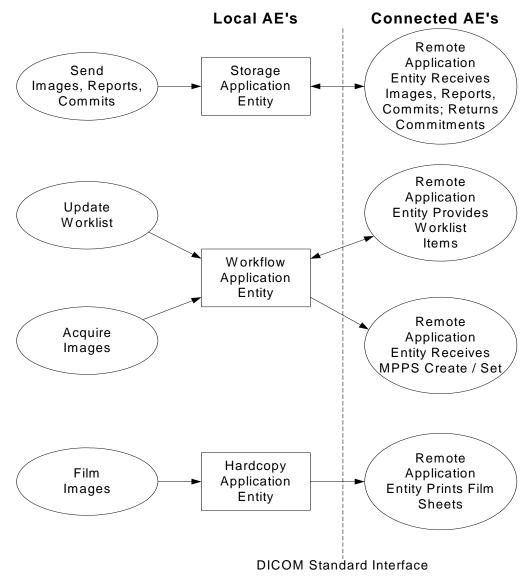


Figure 1 APPLICATION DATA FLOW DIAGRAM

The Storage Application Entity sends Images and Structured Reports to a remote AE. It is associated with the local real-world activity "Print" for single frame and "Capture" for Multiframe or Cineloops on iU22, and "Freeze" then "Acquire" for single frame and "Acquire" for loops or clips on the iE33. Sending of images depends on user configuration, either "After Each Print/Capture" for iU22 and "After Each Print/Acquire" for iE33, or "At End of Exam" with or without "Send on Demand." Sending Structured Reports occurs at End of Exam or images and SRs

are sent when Send on Demand is pressed. An exam may be sent by user selection from the Patient Directory (PDIR) using "Review". If configured for After Each, images are transferred immediately after acquisition. The association remains open for 10 minutes, and then closes. If the remote AE is configured for Storage Commitment, the Storage AE will request Storage Commitment after End Exam. If a commitment response is successfully obtained, this information is recorded in the local database, placing a checkmark in the commit portion of the Patient Directory display and signaling the Auto-delete function that the exam qualifies for deletion.

- The Workflow Application Entity receives Worklist information from and sends MPPS information to a remote AE. It is associated with the local real-world activities "Update Worklist", "Patient Search" and "Acquire Images". When either the "Update Worklist" or "Patient Search" local real-world activity is performed, the Workflow Application Entity queries a remote AE for worklist items and provides the set of worklist items matching the query request. "Update Worklist" is performed as a result of an operator request or can be is performed automatically at specific time intervals. "Patient Search" is manually initiated.
  - MPPS N-Create, Status = IN PROGRESS:
    - Acquisition of images using "Print", "Capture" or "Acquire" will result in automated creation of an MPPS Instance managed by a remote AE.
  - MPPS N-Set, Status = COMPLETE
    - Completion of the MPPS is performed as the result of an operator action of ending the exam.
  - MPPS N-Set, Status = DISCONTINUED
    - "Cancel Exam" causes the "Discontinued" status to be sent. A "Paused" exam does not initiate an MPPS event.
- The ability to **Append** images and SRs to an ended exam has been available since software version 2.0.0.x.
   There are two fundamental methods to perform append:
  - Append from Patient Directory
    - Select an Ended study from the Patient Directory.
      - Select the study; choose "Append." Two options are available:
        - "Add" (if less than 24 hours old), allows images to be added to the original Study, using the same Study Instance UID, and a new Series Instance UID. If more than 24 hours old, only "Create" will be available.
        - o "Create", which will create a new Study Instance UID.
        - o Study Status will be "Ended"
        - The choice of which option to use is dependent on the behavior of the SCP to which the data is sent.
  - o Append from Image Review
    - Select the exam from the Patient Directory. Select "Display Exams" to review images.
      - Select an image for full-screen display
        - o iU22: "Capture" or "Print"
        - o iE33: "Freeze > Acquire", "Acquire" or "Create Subpage"
      - A message is displayed at the bottom of the screen, "Creating a new exam for append..."
      - Study Status of new exam in the Patient Directory will be "Appended" after exiting review.
  - Default behavior is selectable via the Print/Network configuration screen for Append from Image Review Create Study Instance UID:
    - iU22 Enabled by Default
    - iE33 Disabled by Default
  - For Exams appended by creating the image from Image Review and changing visualization of the existing images, for example, changing chroma map, added images would have the same Date/Time stamp of the original images in which the images were acquired. This is not the case for append from Patient Directory, which creates completely new images with the current date and time.

- Study Date on the Report page on the iU22 or iE33 system refers to the date of an exam in which the evidences were acquired. This is exported as DICOM Study Date. This includes all Appended and Non-Appended exams.
- For Exams appended from Image Review, the Report footer on the iU22 or iE33 system has the statement "Appended: "followed by the date in which the exam is started for Appending/Appended exams from Image Review. This is exported as DICOM Performed Procedure Step Start Date. The statement is not displayed for Non-Appended Exams and Appended exams from Patient Directory.
- SR Vendors shall refer to DICOM Study Date to determine the date of the original exam in which the evidences were acquired and refer to DICOM Performed Procedure Step Start Date for the date of Appended exam.
- Send on Demand allows for sending images (US Image, US MF Image) and/or Structured Report during an active exam. Print images will be sent without requiring a full page or end exam. System export setting must be "End of Exam" for Send on Demand to be available, as indicated by a new icon located at the bottom center of the system display after acquiring the first image of the study,
- The Hardcopy Application Entity prints images on a remote AE (Printer or print server). It is associated with the local real-world activity "Print" for iU22 or "Freeze" then "Acquire" from iE33. Either user action creates a print queue containing one or more virtual film sheets composed from images acquired by the user. It creates and sends fully rendered pages already containing the user's selected formatting choices. Only a single image object per sheet is sent to the printer. This print object is rather large compared to sending individual Image Box objects to the printer. If the user has both a BW and Color DICOM printer configured and selected, and is using "After Each Print/Capture (or Acquire)", the images containing no Color Flow or Chroma data will be sent to the BW printer, all others will be sent to the Color printer.
- Exam data is sent to all selected Store, Print and Workflow destinations simultaneously in accordance with system configuration of "After Each Print/Capture (or Acquire)" or "At End of Exam", unless Send on Demand is enabled resulting in images and updated Structured Reports since last Send on Demand. Writing to media is always at the end of the exam.

#### 4.1.2 Functional Definition of AEs

#### 4.1.2.1 Functional Definition of Storage Application Entity

The existence of a Network Store queue with associated network destination will activate the Storage AE. An association request is sent to the destination AE and upon successful negotiation of a Presentation Context the image transfer is started. If the association cannot be opened, the related queue is set to a "Failed" state, indicated by a Red dot on the Network Icon, and can be restarted by the user via the queue management interface. The user may need to cancel the queue, and then restart manually. Multiframe (loop) objects will be transferred first, then single frames when configured for End of Exam. When "Image Export Format" is selected as "monochrome", single frame images that have no Color Flow Doppler or Chroma maps applied, will export as grayscale using Monochrome2 Photometric Interpretation. Single frame images that include Color Flow Doppler will be sent as RGB. If the non-active region of a 2D/scrolling image has a chroma map, it will be sent as monochrome. The "Image Export Format" selection has no effect on loop images.

System acquisition Maximums: Number of exams on the system = 200\*

Number of Frames in cineloop = 2200

\* Unless system hard drive capacity is exceeded first

### 4.1.2.2 Functional Definition of Workflow Application Entity

Update Worklist attempts to download a Modality Worklist from a Modality Worklist server with studies matching the search criteria. Default Modality is US for ultrasound and the current date. A custom Modality is now possible. If the Workflow AE establishes an Association to a remote AE, it will transfer all worklist items via the open Association. The results of a successful Worklist Update will overwrite the data in the Worklist display. Specific queries for Patient Last Name, Patient ID, Accession #, Date, and Requested Procedure ID may be performed using the Patient Search.

Additional changes to Modality Worklist search include customizing to search for a different AE Title, Station Name and System Location than the values configured in the System Global Configuration screen.

There is no queue management for Worklist.

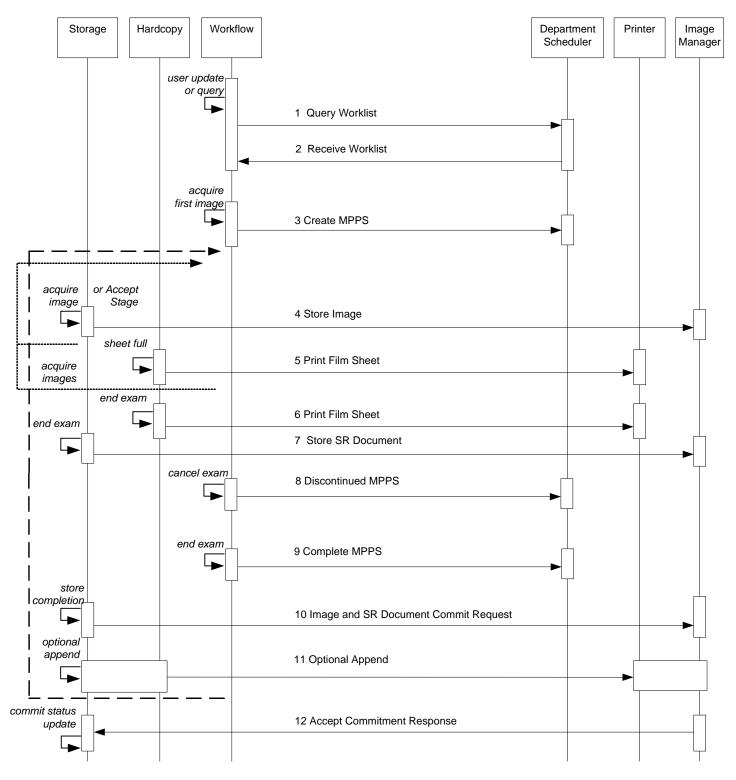
Note: A wildcard (broad) patient query can be performed by entering a \* in the Patient Name field.

The Workflow AE performs the creation of a MPPS Instance automatically when the first image of a study is acquired. MPPS message queues are listed along with Image and Structured Report queues in the Network status window.

#### 4.1.2.3 Functional Definition of Hardcopy Application Entity

The existence of a print queue will activate the Hardcopy AE. An association is established with the printer(s) and the printer's status determined. If the printer is operating normally, the film sheets will be printed. If the printer is not operating normally, the print queue will set to a "Failed" state and can be restarted by the user via the queue management interface. In the case that a user has both a BW and a Color DICOM printer configured, during an exam with "After Each Print/Capture" selected, the images that contain color data, i.e., Color Flow Doppler or Chroma, will be sent to the Color printer only, and all other images sent only to the BW printer. There is an embedded retry mechanism that retries User Recoverable errors for up to 1 hour, waiting 20 seconds between attempts.

#### 4.1.3 Sequencing of Real-World Activities



#### FIGURE 2A: SEQUENCING CONSTRAINTS – AFTER EACH CONFIGURATION

Figures 2a and 2b illustrate normal scheduled workflow conditions.

Notes:

- Printing to DICOM printers may occur independent of any other DICOM activity.
- All selected store, print and workflow devices are sent data during the exam when configured for "Send After Each Print/Capture" or at "At End of Exam." DVD will only be sent to at End of Exam.
- Selecting a study from Review for export will send to all selected devices.

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

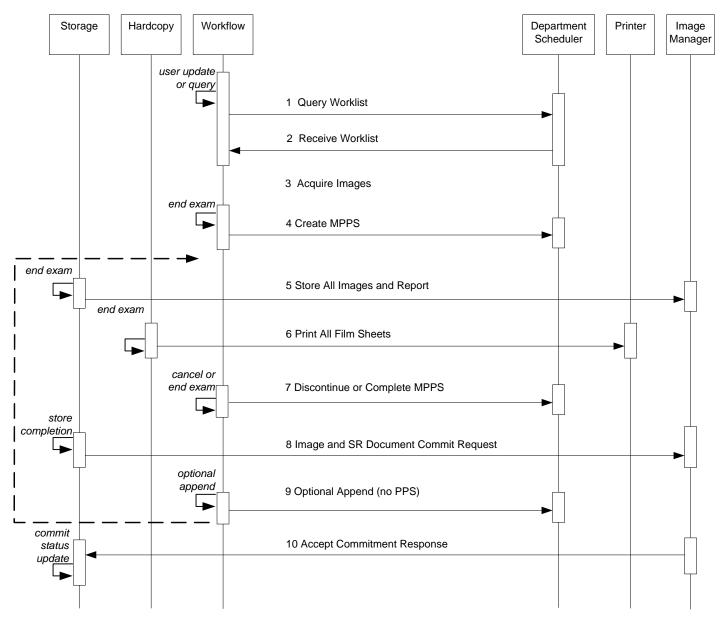
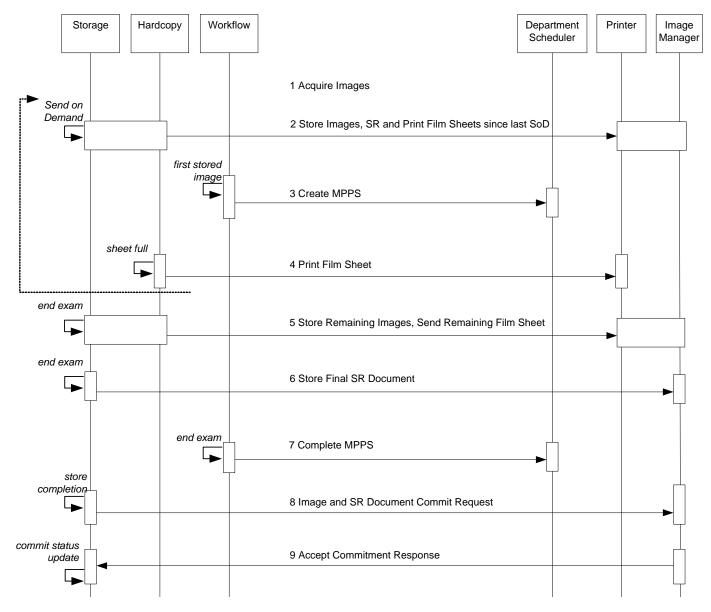


FIGURE 2B: SEQUENCING CONSTRAINTS – END EXAM CONFIGURATION



### Figures 2c Illustrates Flow Changes to Send At End of Exam with Send on Demand (SoD)

FIGURE 2C: SEQUENCING CONSTRAINTS – SEND ON DEMAND CONFIGURATION

### 4.2 AE SPECIFICATIONS

### 4.2.1 Storage Application Entity Specification

#### 4.2.1.1 SOP Classes

iU22 and iE33 provide Standard Extended<sup>1</sup> Conformance to the following SOP Classes:

SOP CLASSES FOR AE STORAGE				
SOP Class Name	SOP Class UID	SCU	SCP	
US Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Yes	No	
US Image Storage (retired)	1.2.840.10008.5.1.4.1.1.6	Yes	No	
US Multiframe Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Yes	No	
US Multiframe Image Storage (retired)	1.2.840.10008.5.1.4.1.1.3	Yes	No	
Comprehensive Structured Report Storage	1.2.840.10008.5.1.4.1.1.88.33	Yes	No	
Storage Commitment Push Model	1.2.840.10008.1.20.1	Yes	No	

# Table 3SOP CLASSES FOR AE STORAGE

Note: Use of Retired SOP Classes only is user configurable for the system on the Print/Network "Printer/Capture configuration page in the "Image Export" section. All image storage will use Retired SOP Classes only when selected.

### 4.2.1.2 Association Establishment Policy

4.2.1.2.1 General

N

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

# Table 4 DICOM APPLICATION CONTEXT FOR AE STORAGE

Application Context Name	1.2.840.10008.3.1.1.1
--------------------------	-----------------------

#### 4.2.1.2.2 Number of Associations

iU22 and iE33 initiate one Association at a time for each destination to which a transfer request is being processed in the active job queue list. Three 'Archive' destinations may be selected simultaneously, but only one job will be active at a time, the other(s) remain pending until the active job is completed or failed.

Table 5           NUMBER OF ASSOCIATIONS INITIATED FOR AE STORAGE		
Maximum number of simultaneous Associations	5, 1 for each configured storage device	
for a shart we had the first the start to 0.4.0 the start of 1.4.0 there are 0.5 so that start		

1 for each store destination, up to 3; 1 Structured Report and 1 Storage Commitment

iU22 and iE33 accept Associations for N-EVENT-REPORT notifications for the Storage Commitment Push Model SOP Class.

# Table 6 NUMBER OF ASSOCIATIONS ACCEPTED FOR AE STORAGE

Maximum number of simultaneous Associations	1
	·

#### 4.2.1.2.3 Asynchronous Nature

iU22 and iE33 do not support asynchronous communication (multiple outstanding transactions over a single Association).

<sup>1</sup> See section 8.7 for information on the Standard Extended SOP Class

Table 7
ASYNCHRONOUS NATURE AS A SCU FOR AE STORAGE

Maximum number of outstanding asynchronous	1
transactions	

#### 4.2.1.2.4 Implementation Identifying Information

The implementation information for this Application Entity is:

Table 8		
DICOM IMPLEMENTATION CLASS AND VERSION FOR AE STORAGE		

Implementation Class UID	1.3.46.670589.5.2.10
Implementation Version Name	MIP5.1L4

#### 4.2.1.3 Association Initiation Policy

4.2.1.3.1 Activity - Store Images, Loops and Structured Reports

#### 4.2.1.3.1.1 Description and Sequencing of Activities

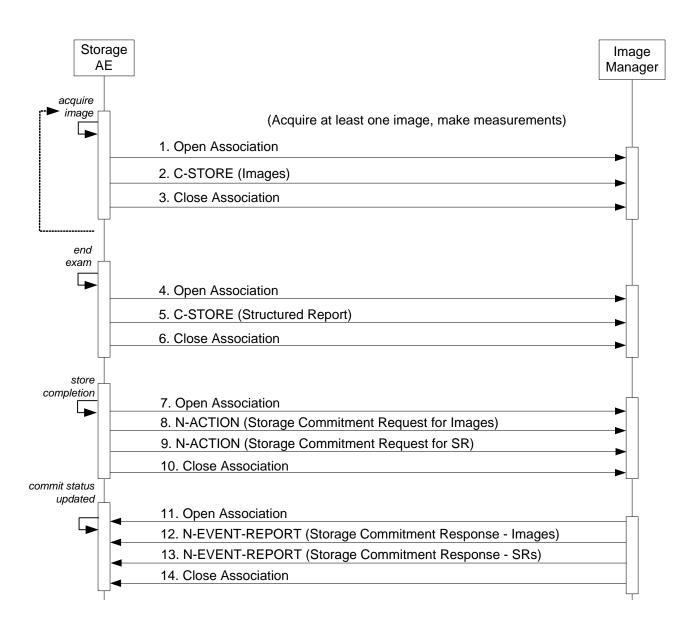
A user may select exams or individual images from Review and request them to be sent to multiple destinations (up to 3). Reports may not be selected individually, but are sent when "End Exam" is pressed, and when an entire study is selected from the Review Directory. Each object (single frame, Multiframe, 3D, 3D Subpage, report) is entered into the job queue. When the "Send After Each Print/Capture" option is active, the queue is serviced continuously during the exam. There is a default 10-minute timeout for "Send After Each," after which the association is closed. Any additional images acquired during the exam will be sent on a subsequent association.

The Network Status icon reports the status of the job, Green is ok, Yellow is paused, and Red is failed. If the C-STORE Response from the remote Application contains a status other than Success or Warning, the Association is aborted and the related Job is switched to a failed state. It can be restarted any time by user interaction. When a system configured with selected network destinations is used without the network connected, it is considered in "Portable" mode. Each network status Icon will be Yellow with status of "Pending" for each study acquired while the network was not connected. When returning from portable, reconnecting the network cable will initiate transfer again.

If a device is configured for Storage Commitment service, the Storage AE will transmit a separate Storage Commitment request (N-ACTION) for images and one for the report, over two separate Associations. The Storage AE can only receive an N-EVENT-REPORT request in a separate subsequent association initiated by the SCP employing PDU 54H SCP/SCU Role Negotiation in the SCP's Association Request. It cannot receive N-Event-Report-Rq messages on the same association as the N-Action-Rq.

Structured reports will contain all supported measurements and calculations created by iU22 and iE33 even if they are not selected for display in the on-system report. Measurements or calculations that are not supported for export are listed in Appendix A in the Mapping Tables for each report and indicated by "Not Mapped"

OB-GYN study types generate OB-GYN Ultrasound Procedure Reports, Vascular or Abdominal (iU22) study measurements generate a Vascular SR report and the Adult Echo Study creates Adult Echocardiography Reports. Note that there can be more than one report instance per exam, so long as they are from different study types.



#### Figure 3 SEQUENCING OF ACTIVITY – SEND IMAGES AND STRUCTURED REPORT

The sequence of interactions between the Storage AE and an Image Manager is illustrated in Figure 3 for the "Store" configuration option "After Each." The alternative option, "End Exam" differs only in the removal of the loop symbol on the 'acquire images' activity

NOTES: Pausing an exam will close the current association. A new association will be created when resumed. Similar behavior when the association times out.

The N-EVENT-REPORT must be sent over a separate association initiated by the Image Manager (see Section 4.2.1.4.1 on Activity – Receive Storage Commitment Response).

#### 4.2.1.3.1.2 Proposed Presentation Contexts

iU22 and iE33 are capable of proposing the Presentation Contexts shown in the following table:

Presentation Context Table					
Abstract Syntax		Transfer Syntax			Ext
Name	UID	Name List	UID List	Role	Ext. Neg.
US Image Storage*	1.2.840.10008.5.1. 4.1.1.6.1	Implicit VR Little Endian Explicit VR Little Endian JPEG Lossy Baseline JPEG Lossless Baseline	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4. 50 1.2.840.10008.1.2.4. 70	SCU	None
US Image Storage* (Retired)	1.2.840.10008.5.1. 4.1.1.6	Implicit VR Little Endian Explicit VR Little Endian JPEG Lossy Baseline JPEG Lossless Baseline	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4. 50 1.2.840.10008.1.2.4. 70	SCU	None
US Multiframe Image Storage**	1.2.840.10008.5.1. 4.1.1.3.1	Implicit VR Little Endian Explicit VR Little Endian JPEG Lossy Baseline	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4. 50	SCU	None
US Multiframe Image Storage** (Retired)	1.2.840.10008.5.1. 4.1.1.3	Implicit VR Little Endian Explicit VR Little Endian JPEG Lossy Baseline	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4. 50	SCU	None
Comprehensive Structured Report Storage	1.2.840.10008.5.1. 4.1.1.88.33	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2 1.2.840.10008.1.2.1	SCU	None
Storage Commitment Push Model	1.2.840.10008.1.20 .1	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2 1.2.840.10008.1.2.1	SCU	None
Private 3D Presentation State***	1.3.46.670589.2.5. 1.1	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2 1.2.840.10008.1.2.1	SCU	None

# Table 9 PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY SEND IMAGES

\* Single frame images will be exported per the following table.

\*\* Loops will be YBR\_FULL\_422 unless "Uncompressed" is selected in setups, which will produce RGB, or Monochrome2 loops, depending on system setup and image content (if Color Doppler or Chroma) listed below.

\*\*\* Intended for use only on QLAB and Xcelera workstations.

Presentation Contexts are proposed for each Archive device based on selected options. Storage Commitment N-Action Requests will only be sent to a device that is also configured as the Storage Commitment server, and a target archive is selected that images are sent to.

### Monochrome Setting and resulting Image Export formats

Send Color as RGB / Non-color as Monochrome

#### "BW as Monochrome2 / Color as RGB"

Image Type	Color Data in Image? E.g. Color Flow or Chroma	Compression Setting	Image Exported As
Single Frame	No	Grey out as Uncompressed	Monochrome2 uncompressed
Single Frame	Yes	Grey out as Uncompressed	RGB uncompressed
Data Screen	No	Grey out as Uncompressed	Monochrome2 uncompressed
Loop	No	Uncompressed	Monochrome2 uncompressed
Loop	Yes	Uncompressed RGB uncompressed	
Loop	No	Yes	Compressed RGB (JPEG)
Loop	Yes	Yes	Compressed RGB (JPEG)

### "Send ALL as Monochrome"

Image Type	Color Data in Image? E.g. Color Flow or Chroma	Compression Setting	Image Exported As
Single Frame	No	Grey out as Uncompressed	Monochrome2 uncompressed
Single Frame	Yes	Grey out as Uncompressed	Monochrome2 uncompressed
Data Screen	No	Grey out as Uncompressed	Monochrome2 uncompressed
Loop	No	Uncompressed	Monochrome2 uncompressed
Loop	Yes	Uncompressed	Monochrome2 uncompressed

#### "Monochrome Off"

Image Type	Color Data in Image? E.g. Color Flow or Chroma	Compression Setting	Image Exported As
Single Frame	No	Grey out as Uncompressed	RGB uncompressed
Single Frame	Yes	Grey out as Uncompressed	RGB uncompressed
Data Screen	No	Grey out as Uncompressed	RGB uncompressed

Loop	No	Uncompressed	Monochrome2 uncompressed
Loop	Yes	Uncompressed	RGB uncompressed
Loop	No	Yes	Compressed RGB (JPEG)
Loop	Yes	Yes	Compressed RGB (JPEG)

NOTE: If 'Full Screen' is selected, it applies only to single frame images and no scaling data is sent.

All Presentation Contexts are proposed for all Archive devices, unless the user selects "Implicit Little Endian Only" in the Advanced Configuration tab for the configured device. Then only Implicit Little Endian is negotiated for that device, provided the study contains no JPEG Lossy compressed loops

The Implicit Little Endian Only selection will override the Single Frame Compression setting, resulting in only uncompressed export.

Storage Commitment N-Action Requests are only sent to devices that are configured as the Storage Commitment server, and a target archive is selected that images are sent to.

"Target Archive" must be one of the three selected archives that images are sent to. "Commit Server" may be the same device but a configuration entry must be made for it in Global Config/Devices.

4.2.1.3.1.3 SOP Specific Conformance for Image and Comprehensive Structured Report Storage SOP Classes

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

Table 10 describes C-Store response behavior.

Table 10 STORAGE C-STORE RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP successfully stored the SOP Instance. If all SOP Instances succeed, the job is marked as complete.
*	*		The Association is aborted using A-ABORT and the transfer fails. The status is logged.

The behavior of Storage AE during communication failure is summarized in Table 11.

STORAGE COMMUNICATION FAILURE BEHAVIOR			
Exception Behavior			
Timeout	Same as Service Status "Refused" in Table 10 above.		
Association aborted by the SCP or network layers	Same as Service Status "Refused" in Table 10 above.		

A green dot on the Network Transfer Icon indicates a successful transfer or an active queue. A red dot indicates failure. By using the Queue Manager, the user can restart a failed transfer. Open the Queue Manager by clicking on the Network Transfer Icon. Select the failed transfer and click Retry

An Association that is interrupted due to a broken and reestablished network topology will automatically retry the connection 1 time after a 5 second delay before reporting a connection failure.

The contents of US Image, US Multiframe Storage and Comprehensive Structured Report Storage SOP Instances conform to the DICOM IOD definitions described in Section 8.1.

#### 4.2.1.3.1.4 SOP Specific Conformance for Storage Commitment Push Model SOP Class

4.2.1.3.1.4.1 Storage Commitment Operations (N-ACTION)

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

Table 12 summarizes the behavior of Storage AE when receiving response status codes.

 Table 12

 STORAGE COMMITMENT N-ACTION RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The system waits for the N-Event-Report.
*	*	Any other status code.	The commit status remains incomplete for all objects.

Table 13 summarizes the behavior of Storage AE during communication failure.

Table 13
STORAGE COMMITMENT COMMUNICATION FAILURE BEHAVIOR

Exception	Behavior
Timeout	Same as non-success status in Table 12.
Association aborted by the SCP or network layers	Same as non-success status in Table 12.

#### 4.2.1.3.1.4.2 Storage Commitment Tags (N-ACTION)

The Storage AE will request storage commitment using the following tags

NOTE: Storage Commitment may only be automatically requested by the system at the end of a study.

	STORAGE COMMITMENT N-ACTION-REQUEST MESSAGE CONTENTS					
Action Type Name	Action Type ID	Attribute	Тад	Requirement Type SCU		
Request	1	Transaction UID	(0008,1195)	1		
Storage Commitment		Storage Media File-Set ID	(0088,0130)	3		
Communent	Storage Media File-Set UID	(0088,0140)	3			
	Referenced SOP Sequence	(0008,1199)	1			
	>Referenced SOP Class UID	(0008,1150)	1			
	>Referenced SOP Instance UID	(0008,1155)	1			
	>Storage Media File-Set ID	(0088,0130)	3			
		>Storage Media File-Set UID	(0088,0140)	3		

# Table 13a STORAGE COMMITMENT N-ACTION-REQUEST MESSAGE CONTENTS

### 4.2.1.3.1.4.3 Storage Commitment Notifications (N-EVENT-REPORT)

The Storage AE can receive an N-EVENT-REPORT notification received from the SCP via Reverse-role negotiation.

Table 14 summarizes the behavior of Storage AE when receiving Event Types within the N-EVENT-REPORT.

STORAGE COMMITMENT N-EVENT-REPORT BEHAVIOUR			
Event Type Name	Event Type ID	Behavior	
Storage Commitment Request Successful	1	The commit status is set to complete for each object.	
Storage Commitment Request Complete – Failures Exist	2	The commit status remains incomplete. The commit comment for each object is logged.	

Table 14

The reasons for returning specific status codes in a N-EVENT-REPORT response are summarized in Table 15.

 Table 15

 STORAGE COMMITMENT N-EVENT-REPORT RESPONSE STATUS REASONS

Service Status	Further Meaning	Error Code	Reasons
Success	Success	0000	The storage commitment result has been successfully received.

#### 4.2.1.3.1.4.4 Storage Commitment Tags (N-EVENT-REPORT)

Tags supported for receiving an N-Event-Report message.

Table 15a lists the tags that are supported within the N-EVENT-REPORT.

# Table 15a STORAGE COMMITMENT N-EVENT-REPORT MESSAGE CONTENTS

Event Type Name	Event Type ID	Attribute	Тад	Requirement Type SCU
Storage	1	Transaction UID	(0008,1195)	None
Commitment Request		Retrieve AE Title	(0008,0054)	None
Successful		Storage Media File-Set ID	(0088,0130)	None
		Storage Media File-Set UID	(0088,0140)	None
		Referenced SOP Sequence	(0008,1199)	None
		>Referenced SOP Class UID	(0008,1150)	None
		>Referenced SOP Instance UID	(0008,1155)	None
		>Retrieve AE Title	(0008,0054)	None
		>Storage Media File-Set ID	(0088,0130)	None
		>Storage Media File-Set UID	(0088,0140)	None
Storage	2	Transaction UID	(0008,1195)	None
Commitment Request		Retrieve AE Title	(0008,0054)	None
Complete – Failures Exist		Storage Media File-Set ID	(0088,0130)	None
		Storage Media File-Set UID	(0088,0140)	None
		Referenced SOP Sequence	(0008,1199)	None

>Referenced SOP Class UID	(0008,1150)	None
>Referenced SOP Instance UID	(0008,1155)	None
>Retrieve AE Title	(0008,0054)	None
>Storage Media File-Set ID	(0088,0130)	None
>Storage Media File-Set UID	(0088,0140)	None
Failed SOP Sequence	(0008,1198)	None
>Referenced SOP Class UID	(0008,1150)	None
>Referenced SOP Instance UID	(0008,1155)	None
>Failure Reason	(0008,1197)	None

#### 4.2.1.4 Association Acceptance Policy

#### 4.2.1.4.1 Activity – Receive Storage Commitment Response

#### 4.2.1.4.1.1 Description and Sequencing of Activities

The Storage AE accepts associations for pending responses to a Storage Commitment Request only using SCP/SCU Role Negotiation; explicitly stating that the association is initiated by the SCP to the SCU. Any other will be rejected.

#### 4.2.1.4.1.2 Accepted Presentation Contexts

Table 17 summarizes Presentation Contexts that the Storage AE accepts.

# Table 17 ACCEPTABLE PRESENTATION CONTEXTS FOR ACTIVITY RECEIVE STORAGE COMMITMENT RESPONSE

Presentation Context Table					
Abstract	Abstract Syntax Transfer Syntax				
Name	UID	Name List	UID List	Role	Ext. Neg.
Storage Commitment Push Model	1.2.840.10008.1.20 .1	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2 1.2.840.10008.1.2.1	SCU	None

## 4.2.1.4.1.3 SOP Specific Conformance for Storage Commitment Push Model SOP Class

4.2.1.4.1.3.1 Storage Commitment Notifications (N-EVENT-REPORT)

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

Table 14 summarizes the behavior of Storage AE when receiving Event Types within the N-EVENT-REPORT.

Table 15 summarizes the reasons for returning specific status codes in an N-EVENT-REPORT response.

#### 4.2.2 Workflow Application Entity Specification

### 4.2.2.1 SOP Classes

iU22 and iE33 provide Standard Conformance to the following SOP Classes:

SOP CLASSES FOR AE WORKFLOW					
SOP Class Name	SOP Class UID	SCU	SCP		
MWL Information Model – FIND	1.2.840.10008.5.1.4.31	Yes	No		
Modality Performed Procedure Step	1.2.840.10008.3.1.2.3.3	Yes	No		

#### Table 18 SOP CLASSES FOR AE WORKFLOW

### 4.2.2.2 Association Establishment Policy

#### 4.2.2.2.1 General

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

Table 19 DICOM APPLICATION CONTEXT FOR AE WORKFLOW				
Application Context Name	1.2.840.10008.3.1.1.1			

#### 4.2.2.2.2 Number of Associations

iU22 and iE33 initiate one Association at a time for a Worklist request.

Table 20 NUMBER OF ASSOCIATIONS INITIATED FOR AE WORKFLOW				
Maximum number of simultaneous Associations	1			

#### 4.2.2.3 Asynchronous Nature

iU22 and iE33 do not support asynchronous communication.

Table 21
ASYNCHRONOUS NATURE AS A SCU FOR AE WORKFLOW

Maximum number of outstanding asynchronous transactions	1

#### 4.2.2.2.4 Implementation Identifying Information

The implementation information for this Application Entity is:

DICOM IMPLEMENTATION	Table 22 CLASS AND VERSION FOR AE WORKFLOW
Implementation Class UID	1.3.46.670589.5.2.10
Implementation Version Name	MIP5.1L4

#### 4.2.2.3 Association Initiation Policy

4.2.2.3.1 Activity – Worklist Update

#### 4.2.2.3.1.1 Description and Sequencing of Activities

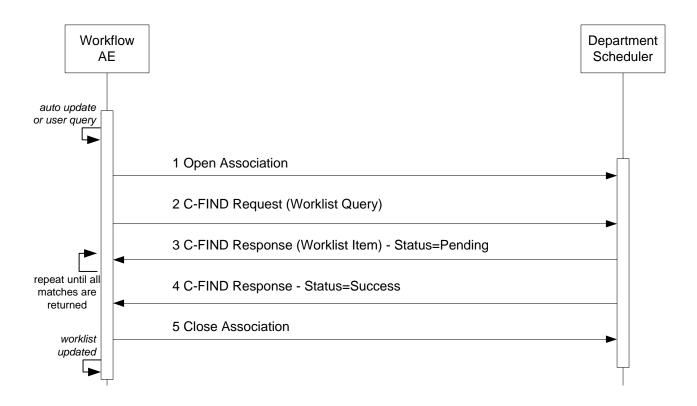
Two events may initiate worklist queries for Modality (US) or Custom defined:

- User may press "Update Worklist" or "Patient Search..." and enter matching fields to start a query: Patient Name, Patient ID, Accession #, Exam Date, Requested Procedure ID or Custom modality.
- The system may be set to periodically update on "End Exam" or with a configurable time interval (between 15 and 120 minutes at 15 minute increments) and configured query fields: System AE Title or Custom defined, Station Name or Custom defined, Current Date, System Location or Custom defined.

The user at may cancel a worklist update anytime between sending the update request and receiving the final response.

"Update Worklist" C-Find-Rq sends: Modality = US or Custom defined and Current Date Optional additional tags\*: Station Name or Custom System Location or Custom System's AE Title or Custom "Patient Search,,," C-Find-Rq sends: Modality = US or Custom Defined and any combination of Last Name (Wild Card (\*) or Matching Leading Letters) Patient ID (Exact Match) Accession # (Exact Match) Exam Date (Exact Match) Procedure ID (Exact Match)

\* Follow Setups > Print/Network > Device Selection > Worklist to set optional additional tags for Update Worklist. Patient Search options are located at Patient Data > Patient Search.



#### Figure 5 SEQUENCING OF ACTIVITY – WORKLIST UPDATE

A possible sequence of interactions between the Workflow AE and a Departmental Scheduler (e.g. a device such as a RIS or HIS which supports the MWL SOP Class as an SCP) is illustrated in Figure 5:

#### 4.2.2.3.1.2 Proposed Presentation Contexts

iU22 and iE33 will propose Presentation Contexts as shown in the following table:

Table 23
PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY WORKLIST UPDATE
Presentation Context Table

Abstract	Abstract Syntax Transfer Syntax		Transfer Syntax		
Name	UID	Name List	UID List	Role	Ext. Neg.
Modality Worklist Information Model – FIND	1.2.840.10008.5.1. 4.31	•	1.2.840.10008.1.2 1.2.840.10008.1.2.1	SCU	None

#### 4.2.2.3.1.3 SOP Specific Conformance for Modality Worklist

Table 24 summarizes the behavior of iU22 and iE33 when encountering status codes in a MWL C-FIND response.

A message "query failed" will appear on the user interface if iU22 or iE33 receive any other SCP response status than "Success" or "Pending."

# Table 24 MODALITY WORKLIST C-FIND RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Matching is complete	0000	The system replaced the worklist from the response.
Refused	Out of Resources	A700	The Association is aborted using A-ABORT. The worklist is not replaced.
Failed	Identifier does not match SOP Class	A900	Same as "Refused" above.
Failed	Unable to Process	C000 – CFFF	Same as "Refused" above.
Cancel	Matching terminated due to Cancel request	FE00	The retrieved items are ignored.
Pending	Matches are continuing	FF00	Continue.
Pending	Matches are continuing – Warning that one or more Optional Keys were not supported	FF01	Continue.
*	*	Any other status code.	Same as "Refused" above.

Table 25 summarizes the behavior of iU22 and iE33 during communication failure.

Exception	Behavior
Timeout	Same as Service Status "Refused" in the table above.
Association aborted by the SCP or network layers	Same as Service Status "Refused" in the table above.

# Table 25 MODALITY WORKLIST COMMUNICATION FAILURE BEHAVIOR

Table 26 describes the iU22 and iE33 Worklist Matching Keys and requested attributes. Unexpected attributes returned in a C-FIND response are ignored.

Non-matching responses returned by the SCP due to unsupported optional matching keys are ignored.

WORKLIST MAT	CHING KEYS			r	r	<b>r</b>	
Module Name	Тад	VR	Μ	R	Q	D	IOD
Attribute Name							
SOP Common							
Specific Character Set	(0008,0005)	CS		х			
	(****,****)						
Scheduled Procedure Step Scheduled Procedure Step Sequence	(0040,0100)	SQ		v			v
<ul> <li>Scheduled Frocedule Step Sequence</li> <li>Scheduled Station AE Title <sup>1</sup></li> </ul>	(0040,0100)	AE	(8)	X			Х
<ul> <li>Scheduled Station AE The</li> <li>Scheduled Procedure Step Start Date <sup>2</sup></li> </ul>	(0040,0001)	DA	(S)	X	v	v	
<ul> <li>Scheduled Procedule Step Start Date</li> <li>Scheduled Procedure Step Start Time</li> </ul>	(0040,0002)	TM	S, (S)	X	х	х	
<ul> <li>Scheduled Procedule Step Start Time</li> <li>Scheduled Procedure Step End Date</li> </ul>	(0040,0003)	DA		X X			
Scheduled Procedure Step End Date	(0040,0004)	TM		x			
> Modality <sup>3</sup>	(0008,0060)	CS	S, (S)	x			х
<ul> <li>Scheduled Performing Physician's Name</li> </ul>	(0040,0006)	PN	0, (0)	x			(x)
<ul> <li>Scheduled Procedure Step Description</li> </ul>	(0040,0007)	LO		x		x	(x) (x)
<ul> <li>Scheduled Protocol Code Sequence</li> </ul>	(0040,0008)	SQ		x		^	(x) (x)
Scheduled Station Name <sup>4</sup>	(0040,0010)	SH	(S)	x			(^)
<ul> <li>Scheduled Procedure Step Location <sup>5</sup></li> </ul>	(0040,0011)	SH	(S)	x			(x)
> Pre-Medication	(0040,0012)	LO	(0)	x			()
<ul> <li>Scheduled Procedure Step ID</li> </ul>	(0040,0009)	SH		x			x
> Requested Contrast Agent	(0032,1070)	LO		x			~
<ul> <li>Scheduled Procedure Step Status</li> </ul>	(0040,0020)	CS		x			(x)
<ul> <li>Comments on the Scheduled Procedure Step</li> </ul>	(0040,0400)	LT		x			(,,,)
	(00,00,000)						
Requested Procedure ID <sup>6</sup>	(0040,1001)	SH	s	v	$(\mathbf{v})$		×*
Requested Procedure ID Requested Procedure Description	(0040,1001)	LO	3	X	(x)		X*
Study Instance UID	(0032,1000) (0020,000D)	UI		X X			X X
Referenced Study Sequence	(0020,000D)	SQ		X			X
Requested Procedure Code Sequence	(0032,1064)	SQ		x			x
Names of Intended Recipients of Results	(0040,1010)	PN		x			x
Requested Procedure Comments	(0040,1400)	LT		x			~
	(00.10,1.00)			~			
Imaging Service Request Accession Number <sup>7</sup>	(0008,0050)	SH	s	v	v	v	v
Requesting Physician	(0032,1032)	PN	5	X X	х	х	X X
Requesting Service	(0032,1032)	LO		x			x
Referring Physician's Name	(0008,0090)	PN		x		x	x
Imaging Service Request Comments	(0040,2400)	LT		Â		^	^
	(0010)2100)						
Visit Admission	(0000 1000)	LO					
Admitting Diagnosis Description Current Patient Location	(0008,1080) (0038,0300)	LO		X			х
	(0038,0300)	LO		Х			
Patient Identification			_				
Patient's Name <sup>8</sup>	(0010,0010)	PN	S	х	Х	х	Х
Patient ID <sup>9</sup>	(0010,0020)	LO	S	х	х	х	х
Other Patient IDs	(0010,1000)	LO		Х			х
Patient Demographic							
Patient's Birth Date	(0010,0030)	DA		х		х	х
Patient's Sex	(0010,0040)	CS		х		х	х
Patient Size	(0010,1020)	DS		х		х	х
Ethnic Group	(0010,2160)	SH		х			х
Patient's Weight	(0010,1030)	DS		х		х	х
Patient Comments	(0010,4000)	LT		х		х	х
Referenced Patient Sequence	(0008,1120)	SQ		х			х

#### Table 26 WORKLIST MATCHING KEYS

Module Name Attribute Name	Тад	VR	Μ	R	Q	D	IOD
Patient Medical Medical Alerts Additional Patient's History Pregnancy Status Last Menstrual Date	(0010,2000) (0010,21B0) (0010,21C0) (0010,21D0)	LO LT US DA		x x x x			x x x

X\* = Additionally mapped to "Study ID" (0020,0010) in Composite Objects

The above table should be read as follows:

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

Attribute Name: Attributes supported to build an iU22 or iE33 Worklist Request Identifier.

Tag: DICOM tag for this attribute.

VR: DICOM VR for this attribute.

- M: Matching keys for Worklist Update. An "S" indicates that iU22 and iE33 supply an attribute value for Single Value Matching or additional specific tags indicated by "(S)". See <sup>1</sup> below.
- Return keys. An "x" indicates that iU22 and iE33 supply this attribute as a Return Key with R: zero length for Universal Matching.
- Q: Interactive Query Key. An "x" indicates that iU22 and iE33 supply this attribute as matching key, if entered in the Patient Search dialog.
- D: Displayed keys. An "x" indicates that this worklist attribute is displayed to the user in the Patient Data Entry screen or Worklist Directory.
- IOD: An "x" indicates that this Worklist attribute is included into all Object Instances created during performance of the related Procedure Step.
  - <sup>1</sup> Entered in Global Configuration System tab, "**AE Title**" or Custom defined, selected in Device Selection Worklist tab, Define Query section

  - <sup>2</sup> From Patient Search tab in Patient Data Entry "Exam Date" field
     <sup>3</sup> Fixed at "US" or Custom defined, selected in Device Selection Worklist tab, Define Query section
     <sup>4</sup> From Global Configuration System tab, "Station Name" or Custom defined, selected in Device Selection - Worklist tab, Define Query section
  - <sup>5</sup> From Global Configuration System tab, "System Location" or Custom defined, selected in Device Selection – Worklist tab, Define Query section
  - <sup>6</sup> From Patient Search tab in Patient Data Entry "**Procedure ID**" field. <sup>7</sup> From Patient Search tab in Patient Data Entry "**Accession #**" field <sup>8</sup> From Patient Search tab in Patient Data Entry "**Last Name**" field

  - <sup>9</sup> From Patient Search tab in Patient Data Entry "Patient ID" field

#### 4.2.2.3.2 Activity – Acquire Images

Description and Sequencing of Activities 4.2.2.3.2.1

An Association to the configured MPPS SCP system is established immediately after the first image is acquired to send the MPPS N-Create message with status of "IN PROGRESS".

The "End Exam" button causes a "COMPLETED" status in the N-Set message. An exam for which an MPPS Instance is sent with a state of "COMPLETED" can no longer be updated. However, it may be appended to. See section 4.1.1, Application Data Flow for details on append.

The "Cancel Exam" button causes a "DISCONTINUED" message. An exam for which an MPPS Instance is sent with a state of "DISCONTINUED" can also no longer be updated. However, it may be appended to. See section 4.1.1, Application Data Flow for details on append.

The system supports creation of "unscheduled cases" by allowing MPPS Instances to be communicated for locally registered Patients.

The system performs a single Performed Procedure Step at a time per Scheduled Procedure Step.

iU22 and iE33 will initiate an Association to issue an:

- N-CREATE request according to the CREATE Modality Performed Procedure Step SOP Instance operation or a
- N-SET request to finalize the contents and state of the MPPS according to the SET Modality Performed Procedure Step Information operation.

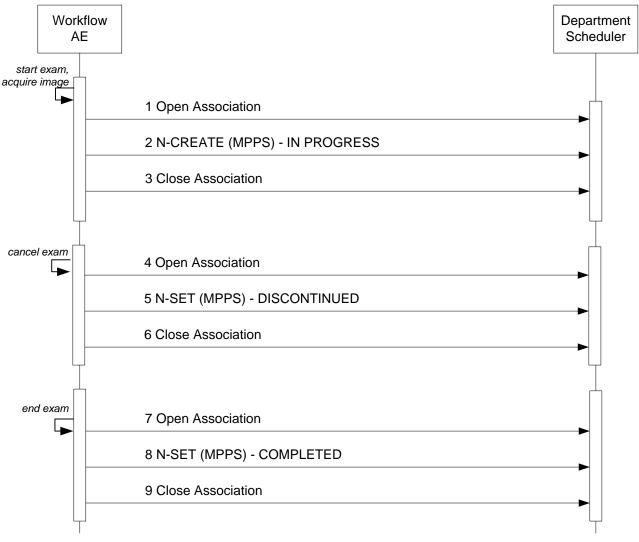


Figure 6 SEQUENCING OF ACTIVITY – ACQUIRE IMAGES

A possible sequence of interactions between the Workflow AE and a Departmental Scheduler (e.g. a device such as a RIS or HIS which supports the MPPS SOP Class as an SCP) is illustrated in Figure 6.

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

#### 4.2.2.3.2.2 Proposed Presentation Contexts

iU22 will propose Presentation Contexts as shown in the following table:

# Table 27 PROPOSED PRESENTATION CONTEXTS FOR REAL-WORLD ACTIVITY ACQUIRE IMAGES

Presentation Context Table						
Abstract Syntax Transfer Syntax						
Name	UID	Name List UID List		Role	Ext. Neg.	
Modality Performed Procedure Step	1.2.840.10008.3.1. 2.3.3	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2 1.2.840.10008.1.2.1	SCU	None	

#### 4.2.2.3.2.3 SOP Specific Conformance for MPPS

Table 28 summarizes the behavior of iU22 and iE33 when encountering status codes in an MPPS N-CREATE or N-SET response.

Table 28				
MPPS N-CREATE / N-SET RESPONSE STATUS HANDLING BEHAVIOR				

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has completed the operation successfully.
Failure	Processing Failure – Performed Procedure Step Object may no longer be updated	0110	The Association is aborted.
Warning	Attribute Value Out of Range	0116H	The error message is displayed.
*	*	Any other status code.	Same as "Failure" above.

Table 29 summarizes the behavior of iU22 and iE33 during communication failure.

 Table 29

 MPPS COMMUNICATION FAILURE BEHAVIOR

Exception	Behavior	
Timeout	Same as "Failure" above.	
Association aborted by the SCP or network layers	Same as "Failure" above.	

Table 30 provides a description of the MPPS N-CREATE and N-SET request identifiers. Empty cells in the N-CREATE and N-SET columns indicate that the attribute is not sent.

Table 30 MPPS N-CREATE / N-SET REQUEST IDENTIFIER							
Attribute Name	Tag	VR	N-CREATE	N-SET			
Specific Character Set	(0008,0005)	CS	Not Sent				
Modality	(0008,0060)	CS	US				
Referenced Patient Sequence	(0008,1120)	SQ					
> Referenced SOP Class UID	(0008,1150)	UI	1.2.840.10008.3.1.2.1.1				

Attribute Name	Tag	VR	N-CREATE	N-SET
>Referenced SOP Instance UID	(0008,1155)	UI		
Patient's Name	(0010,0010)	PN	As received from MWL or entered in PDE.	
Patient ID	(0010,0020)	LO	From Modality Worklist or user input. MWL value may be edited.	
Patient's Birth Date	(0010,0030)	DA	Same as above.	
Patient's Sex	(0010,0040)	CS	Same as above.	
Study ID	(0020,0010)	SH	From Requested Procedure ID from MWL, else System Generated <yyyymmdd.hhmmss></yyyymmdd.hhmmss>	
Performed Station AE Title	(0040,0241)	AE	AE Title from configuration	
Performed Station AE Thie			(requires power cycle)	
Performed Station Name	(0040,0242)	SH	From Ultrasound System Configuration	
			(requires power cycle)	
Performed Location	(0040,0243)	SH	From Ultrasound System Configuration	
			(requires power cycle)	
Performed Procedure Step Start Date	(0040,0244)	DA	Actual start date	
Performed Procedure Step Start Time	(0040,0245)	тм	Actual start time	
Procedure Code Sequence	(0008,1032)	SQ	Mapped from Requested Procedure Code Sequence (0032,1064) from MWL	As received from MWL
>Code Value	(0008,0100)	SH	As received from MWL	As received from MWL
>Coding Scheme Designator	(0008,0102)	SH	As received from MWL	As received from MWL
>Coding Scheme Version	(0008,0103)	SH	As received from MWL	As received from MWL
>Code Meaning	(0008,0104)	LO	As received from MWL	As received from MWL
Performed Procedure Step End Date	(0040,0250)	DA	Zero length	Actual end date
Performed Procedure Step End Time	(0040,0251)	тм	Zero length	Actual end time
Performed Procedure Step Status	(0040,0252)	cs	IN PROGRESS	COMPLETED or DISCONTINUED
Performed Procedure Step ID	(0040,0253)	SH	Auto generated, or mapped from Requested Procedure ID from MWL	
Performed Procedure Step Description	(0040,0254)	LO	MWL Scheduled Procedure Step Description (0040,0007) or PDE input if any.	Same
Performed Procedure Type Description	(0040,0255)	LO	If present in MWL, else zero length	

Attribute Name	Tag	VR	N-CREATE	N-SET
Performed Protocol Code Sequence	(0040,0260)	SQ	Zero length, or mapped from MWL Scheduled Protocol Code Sq (0040,0008)	Same
Scheduled Step Attributes Sequence	(0040,0270)	SQ		
> Accession Number	(0008,0050)	SH	From MWL or user PDE input. MWL value may be edited.	
> Referenced Study Sequence	(0008,1110)	SQ	One item per item in the MWL Reference Study Sequence. Absent if unscheduled.	
>> Referenced SOP Class UID	(0008,1150)	UI	Same value as in of the Reference Study Sequence in the MWL	
>> Referenced SOP Instance UID	(0008,1155)	UI	Same value as in of the Reference Study Sequence in the MWL	
> Study Instance UID	(0020,000D)	UI	Same value as in MWL attribute or auto generated	
<ul> <li>Requested Procedure</li> <li>Description</li> </ul>	(0032,1060)	LO	Same value as in MWL attribute	
<ul> <li>Scheduled Procedure Step</li> <li>Description</li> </ul>	(0040,0007)	LO	Same value as in MWL attribute	
<ul> <li>Scheduled Protocol Code</li> <li>Sequence</li> </ul>	(0040,0008)	SQ	Same value as in MWL attribute	
> Scheduled Procedure Step ID	(0040,0009)	SH	Same value as in MWL attribute	
> Requested Procedure ID	(0040,1001)	SH	Same value as in MWL attribute	
Performed Series Sequence	(0040,0340)	SQ		One item per acquired series
> Retrieve AE Title	(0008,0054)	AE	Zero Length	
> Series Description	(0008,103E)	LO	Zero length, or Mapped from Scheduled Procedure Step Description (0040,0007)	Same
> Performing Physician's Name	(0008,1050)	PN	See Table 74	See Table 74
> Operator's Name	(0008,1070)	PN	See Table 74	See Table 74
> Referenced Image Sequence	(0008,1140)	SQ		One item per referenced instance
>> Referenced SOP Class UID	(0008,1150)	UI		SOP Class UID of acquired instance
>> Referenced SOP Instance UID	(0008,1155)	UI		SOP Instance UID of acquired instance
> Protocol Name	(0018,1030)	LO	See Table 74	See Table 74
> Series Instance UID	(0020,000E)	UI	Auto Generated	Same
> Referenced Non-Image Composite SOP Instance	(0040,0220)	SQ	Zero Length	Zero Length

Attribute Name	Tag	VR	N-CREATE	N-SET
Sequence				

#### 4.2.2.4 Association Acceptance Policy

The Workflow Application Entity does not accept Associations.

#### 4.2.3 Hardcopy Application Entity Specification

4.2.3.1 SOP Classes

iU22 and iE33 provide Standard Conformance to the following SOP Classes:

#### Table 31 SOP CLASSES FOR AE HARDCOPY

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

#### 4.2.3.2 Association Establishment Policy

4.2.3.2.1 General

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

### Table 32 DICOM APPLICATION CONTEXT FOR AE HARDCOPY

Application Context Name	1.2.840.10008.3.1.1.1
--------------------------	-----------------------

#### 4.2.3.2.2 Number of Associations

iU22 and iE33 initiate one Association at a time for each configured hardcopy device. Multiple hardcopy devices can be configured.

Table 33 NUMBER OF ASSOCIATIONS INITIATED FOR	AE HARDCOPY
	2 (number of configured hardcopy devices)

#### 4.2.3.2.3 Asynchronous Nature

iU22 and iE33 do not support asynchronous communication (multiple outstanding transactions over a single Association).

### Table 34 ASYNCHRONOUS NATURE AS A SCU FOR AE HARDCOPY

Maximum number of outstanding asynchronous transactions	1

#### 4.2.3.2.4 Implementation Identifying Information

The implementation information for this Application Entity is:

DICOM IMPLEMENTATION CL	Table 35 ASS AND VERSION FOR AE HARDCOPY
ntation Class UID	1.3.46.670589.5.2.10

Implementation Class UID		1.3.46.670589.5.2.10
	Implementation Version Name	MIP5.1L4

#### 4.2.3.3 Association Initiation Policy

#### 4.2.3.3.1 Activity – Film Images

4.2.3.3.1.1 Description and Sequencing of Activities

The system composes images onto film sheets and sends print requests to job queue.

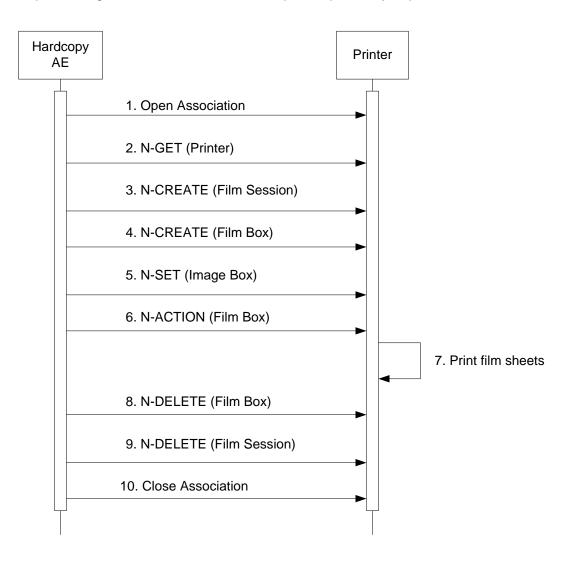


Figure 7 SEQUENCING OF ACTIVITY – PRINT IMAGES

Figure 7 illustrates a typical sequence of DIMSE messages sent over an association between Hardcopy AE and a Printer. Two DICOM Printers may be simultaneously configured, one for BW and one for Color prints.

If both BW and Color printers are configured and selected, the user may choose to automatically send BW prints only to the BW printer and color prints only to the color printer. This feature may only be used while configured for "After **Each Image**", and during the exam. Re-selecting the exam after it has been ended will send all images to both printers. When using the "Send on Demand" feature with print, page(s) that have not been exported will be sent, according to the formatting configuration. If less than a full page is sent, then the remaining blank spaces will be sent black.

Status of the print-job is reported through the Printer Queue Manager icon. Only one job will be active at a time for each separate hardcopy device. If any Response from the remote Application contains a status other than Success or Warning, the Association is aborted and the related Job is switched to a failed state. It can be restarted any time by user interaction.

#### 4.2.3.3.1.2 Proposed Presentation Contexts

Table 36 shows the Presentation Contexts iU22 and iE33 are capable of proposing.

Presentation Context Table					
Abstract Syntax		Transfer Syntax			
Name	UID	Name List	UID List	Role	Ext. Neg.
Basic Grayscale Print Management Meta	1.2.840.10008.5.1. 1.9	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2 1.2.840.10008.1.2.1	SCU	None
Basic Color Print Management Meta	1.2.840.10008.5.1. 1.18	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2 1.2.840.10008.1.2.1	SCU	None

#### Table 36 PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY FILM IMAGES Presentation Context Table

4.2.3.3.1.3 Common SOP Specific Conformance for all Print SOP Classes

Table 37 summarizes the general behavior of Hardcopy AE during communication failure. This behavior is common for all SOP Classes supported by Hardcopy AE.

### Table 37 HARDCOPY COMMUNICATION FAILURE BEHAVIOR

Exception	Behavior	
Timeout	The Association is aborted and reported as "Failed."	
Association aborted by the SCP or network layers	"Network Communication Failure" is reported.	

4.2.3.3.1.4 SOP Specific Conformance for the Printer SOP Class

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

— N-GET

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

#### 4.2.3.3.1.4.1 Printer SOP Class Operations (N-GET)

Hardcopy AE uses the Printer SOP Class N-GET operation to obtain information about the current printer status. Table 38 lists the attributes obtained via N-GET.

Table 38	
PRINTER SOP CLASS N-GET RESPONSE ATTRIBUTES	

Attribute Name	Tag	VR	Value	Presence of Value	Source
Printer Status	(2110,0010)	CS	Provided by Printer	ALWAYS	Printer
Printer Status Info	(2110,0020)	CS	Provided by Printer	ALWAYS	Printer

The Printer Status information is evaluated as follows:

- 1. If Printer status (2110,0010) is NORMAL, the print-job continues to be printed.
- 2. If Printer status (2110,0010) is FAILURE, the print-job is marked as failed.
- 3. If Printer status (2110,0010) is WARNING, the print-job continues to be printed.

Table 39 summarizes the behavior of Hardcopy AE when encountering status codes in a N-GET response.

### Table 39 PRINTER SOP CLASS N-GET RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior		
Success	Success	0000	The request to get printer status information was succes		
*	*	Any other status code.	Same as Timeout above.		

#### 4.2.3.3.1.4.2 Printer SOP Class Notifications (N-EVENT-REPORT)

Hardcopy AE is capable of receiving an N-EVENT-REPORT request at any time during an association.

Table 40 summarizes the behavior of Hardcopy AE when receiving Event Types within the N-EVENT-REPORT.

Table 40
PRINTER SOP CLASS N-EVENT-REPORT BEHAVIOUR

Event Type Name	Event Type ID	Behavior		
Normal	1	The print-job continues to be printed.		
Warning	2	The print-job. For user-recoverable warnings, the job fails and a 1-hour retry period starts, retrying every 20 seconds.		
Failure	3	The print-job is marked as failed.		
*	*	Status code of 0113H		

Table 41 summarizes the reasons for returning specific status codes in a N-EVENT-REPORT response.

Service Status	Further Meaning	Error Code	Reasons			
Success	Success	0000	ne notification event has been successfully received.			
Failure	No Such Event Type	0113H	An invalid Event Type ID was supplied in the N-EVENT-REPORT request.			
Failure	Processing	0110H	An internal error occurred during processing of the N-EVENT-REPORT. A			

### Table 41 PRINTER SOP CLASS N-EVENT-REPORT RESPONSE STATUS REASONS

Failure	short description of the error will be returned in Error Comment (0000,0902).
---------	---

### 4.2.3.3.1.5 SOP Specific Conformance for the Film Session SOP Class

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

#### — N-CREATE

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

#### 4.2.3.3.1.5.1 Film Session SOP Class Operations (N-CREATE)

Table 42 lists the attributes supplied in an N-CREATE Request.

### Table 42 FILM SESSION SOP CLASS N-CREATE REQUEST ATTRIBUTES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Number of Copies	(2000,0010)	IS	Default 1. User defined in Device Configuration.	ALWAYS	USER
Print Priority	(2000,0020)	CS	HIGH	ALWAYS	AUTO
Medium Type	(2000,0030)	CS	BLUE FILM, CLEAR FILM or PAPER*	ALWAYS	USER
Film Destination	(2000,0040)	CS	MAGAZINE or PROCESSOR*	ALWAYS	USER
Film Session Label	(2000,0050)	LO	Philips Medical Systems	ALWAYS	AUTO

\*Dependent on the specific printer selected

Table 43 summarizes the behavior of Hardcopy AE when encountering status codes in a N-CREATE response.

### Table 43 FILM SESSION SOP CLASS N-CREATE RESPONSE STATUS HANDLING BEHAVIOR

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

**4.2.3.3.1.7 SOP Specific Conformance for the Film Box SOP Class** Hardcopy AE supports the following DIMSE operations for the Film Box SOP Class:

- N-CREATE
- N-ACTION

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

**4.2.3.3.1.7.1** Film Box SOP Class Operations (N-CREATE) Table 47 lists the attributes supplied in an N-CREATE Request.

#### Table 47

#### FILM BOX SOP CLASS N-CREATE REQUEST ATTRIBUTES

Attribute Name	Тад	VR	Value	Presence of Value	Source
Image Display Format	(2010,0010)	ST	STANDARD\1,1 or CUSTOM\xxx depending on printer. Default is displayed, and is user editable. Edit only when a valid substitute value is known.	ALWAYS	AUTO/USER
Referenced Film Session Sequence	(2010,0500)	SQ		ALWAYS	AUTO
>Referenced SOP Class UID	(0008,1150)	UI	1.2.840.10008.5.1.1.1	ALWAYS	AUTO
>Referenced SOP Instance UID	(0008,1155)	UI	From created Film Session SOP Instance	ALWAYS	AUTO
Film Orientation	(2010,0040)	CS	PORTRAIT or LANDSCAPE	ALWAYS	USER
Film Size ID	(2010,0050)	cs	Depends on configuration file selected. DICOM Defined Terms plus US_Letter.	ALWAYS	USER
Magnification Type	(2010,0060)	cs	Default Value = NONE, depending on printer	ANAP	AUTO
Min Density	(2010,0120)	US	Default value displayed, user editable	ALWAYS	AUTO/USER
Max Density	(2010,0130)	US	Default value displayed, user editable	ALWAYS	AUTO/USER
Trim	(2010,0140)	CS	NO	ALWAYS	AUTO
Configuration Information	(2010,0150)	ST	Default value displayed, user editable. Edit only when a valid substitute value is known.	ALWAYS	AUTO/USER

Table 48 summarizes the behavior of Hardcopy AE when encountering status codes in a N-CREATE response.

## Table 48 FILM BOX SOP CLASS N-CREATE RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has completed the operation successfully.
Warning	Requested Max Density outside of printer's operating range	B605H	The N-CREATE operation is considered successful but the status meaning is logged.
*	*	Any other status code.	The Association is aborted and the job failed.

#### 4.2.3.3.1.7.2 Film Box SOP Class Operations (N-ACTION)

The Hardcopy AE issues an N-ACTION Request to instruct the Print SCP to print the contents of the Film Box.

Table 49 summarizes the behavior of Hardcopy AE when encountering status codes in an N-ACTION response.

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has completed the operation successfully. The film has been accepted for printing.
Warning	Film Box SOP Instance hierarchy does not contain Image Box SOP Instances (empty page)	B603H	The Association is aborted and the job is failed.
Failure	Unable to create Print Job SOP Instance; print queue is full.	C602	Same as B603H above.
*	*	Any other status code.	Same as B603H above.

Table 49 FILM BOX SOP CLASS N-ACTION RESPONSE STATUS HANDLING BEHAVIOR

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

— N-SET

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

4.2.3.3.1.8.1 Image Box SOP Class Operations (N-SET)

Table 50 lists the attributes supplied in an N-SET Re	equest.
---	---------

IMAGE BOX SOP CLASS N-SET REQUEST ATTRIBUTES							
Attribute Name	Тад	VR	Value	Presence of Value	Source		
Image Position	(2020,0010)	US	1	ALWAYS	AUTO		
Polarity	(2020,0020)	CS	NORMAL	ALWAYS	AUTO		
Basic Grayscale Image Sequence	(2020,0110)	SQ	Used for BW (Monochrome2) print	ALWAYS*	AUTO		
Basic Color Image Sequence	(2020,0111)	SQ	Used for Color (RGB) print	ALWAYS*	AUTO		
>Samples Per Pixel	(0028,0002)	US	1 for Monochrome2 3 for RGB	ALWAYS	AUTO		
>Photometric Interpretation	(0028,0004)	CS	MONOCHROME2 RGB	ALWAYS	AUTO		
Planar Configuration	(0028,0006)	US	Always "01", only used for RGB print.	ANAP	AUTO		
>Rows	(0028,0010)	US	Depends on film size, number of rows for entire sheet of film	ALWAYS	Printer Configuration File		
>Columns	(0028,0011)	US	Depends on film size, number of columns for entire sheet of film	ALWAYS	Printer Configuration File		
>Bits Allocated	(0028,0100)	US	8	ALWAYS	AUTO		
>Bits Stored	(0028,0101)	US	8	ALWAYS	AUTO		

#### Table 50

>High Bit	(0028,0102)	US	7	ALWAYS	AUTO
>Pixel Representation	(0028,0103)	US	0	ALWAYS	AUTO
>Pixel Data	(7FE0,0010)	OW	Pixels of rendered film sheet.	ALWAYS	AUTO

\* Mutually exclusive attributes

Table 51 summarizes the behavior of Hardcopy AE when encountering status codes in a N-SET response.

### Table 51 IMAGE BOX SOP CLASS N-SET RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has completed the operation successfully.
Failure	Insufficient memory in printer to store the image.	C605	The Association is aborted and the job is failed.
*	*	Any other status code.	Same as C605 above.

#### 4.2.3.4 Association Acceptance Policy

The Hardcopy Application Entity does not accept Associations.

- 4.2.4 Verification Application Entity specification
- 4.2.4.1 SOP Class

iU22 and iE33 provide Standard Conformance to the following SOP Class:

### Table 51.1 SOP CLASSES FOR AE VERIFICATION

SOP Class Name	SOP Class UID	SCU	SCP
Verification	1.2.840.10008.1.1	Yes	Yes

#### 4.2.4.2 Association Establishment Policy

4.2.4.2.1 General

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

# Table 51.2 DICOM APPLICATION CONTEXT FOR AE VERIFICATION

Application Context Name	1.2.840.10008.3.1.1.1
--------------------------	-----------------------

#### 4.2.4.2.2 Number of Associations

iU22 and iE33 initiate one Association at a time for a Verification request.

Table 51.31 NUMBER OF ASSOCIATIONS INITIATED FOR AE VERIFICATION			
	Up to 10, one for each configured remote device		

### Table 51.32 NUMBER OF ASSOCIATIONS ACCEPTED FOR AE VERIFICATION

Maximum number of simultaneous Associations	Unlimited, however, calling AE must be already configured in iU22 or iE33.
---	--

#### 4.2.4.2.3 Asynchronous Nature

iU22 and iE33 do not support asynchronous communication (multiple outstanding transactions over a single Association).

### Table 51.4 ASYNCHRONOUS NATURE AS A SCU FOR AE VERIFICATION

Maximum number of outstanding asynchronous transactions 1

#### 4.2.4.2.4 Implementation Identifying Information

The implementation information for this Application Entity is:

#### Table 51.5 DICOM IMPLEMENTATION CLASS AND VERSION FOR AE VERIFICATION

Implementation Class UID	1.3.46.670589.5.2.10
Implementation Version Name	MIP5.1L4

#### 4.2.4.3 Association Initiation Policy

4.2.4.3.1 Activity – Verify as SCU and SCP

#### 4.2.4.3.2 Description and Sequencing of Activities

**SCU:** The user selecting the "Verify" button on the Device configuration page initiates the verification request to the device whose data has just been configured. This tool allows the user to ensure all data (AE Title, Port and IP Address) was correctly entered and the remote device may be contacted. It uses C-Echo and verifies the remote device supports all configured SOP Classes. Any SOP Classes requested that are not supported will report, "failed". Operations may continue, but objects of the type that are not supported will not be exported. See note in 4.2.4.3.5.1 Verification SOP Class Notifications.

**SCP:** The system listens on the port configured on the Global System Configuration screen for Verification requests initiated by other remote devices. The calling device AE must already be configured as a remote device in iU22 or iE33 or the association is rejected.

iU22 and iE33 initiate an Association in order to issue:

- C-ECHO request according to the Verification SOP Class.

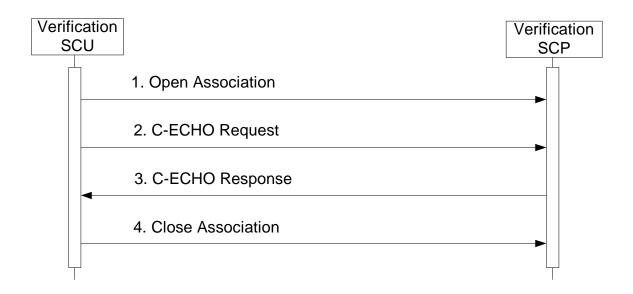


Figure 8a SEQUENCING OF ACTIVITY – ISSUE VERIFY

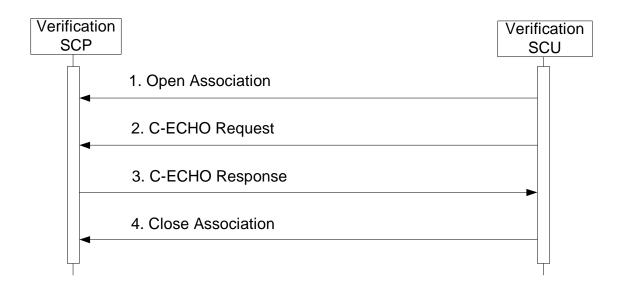


Figure 8b SEQUENCING OF ACTIVITY – RECEIVE VERIFY

**4.2.4.3.3 Proposed Presentation Contexts** iU22 and iE33 will propose Presentation Contexts as shown in the following table:

PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY VERIFICATION						
Presentation Context Table						
Abstract Syntax Transfer Syntax						
Name	UID	Name List	UID List	Role	Ext. Neg.	
Verification	1.2.840.10008.1.1	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2 1.2.840.10008.1.2.1	SCU /SCP	None	

### Table 51.6 PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY VERIFICATION

#### 4.2.4.3.4 SOP Specific Conformance for Verification

Table 51.7 summarizes the behavior of iU22 and iE33 when receiving status codes in a C-ECHO response.

A message will appear on the user interface if iU22 and iE33 receives any other SCP response status than "Success."

 Table 51.7

 VERIFICATION C-ECHO RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success		0000	Device Status is set to: Verified
Refused	Out of Resources	A700	Device Status is set to: Not Verified
Failed	Unable to Process	C000 – CFFF	Same as "Refused" above.
*	*	Any other status code.	Same as "Refused" above.

#### 4.2.4.3.4.1 Verification SOP Class Operations (C-ECHO)

4.2.4.3.5 Association Acceptance Policy

#### 4.2.4.3.5.1 Verification SOP Class Notifications

Possible Responses when "Verify" is used in Global Device configuration:

Device Verification Succeeded
Device Verification Failed (with messages)
{SOP Class(es)}: Verified
{SOP Class(es)}: Not Verified

Note: A given "Archive" server may not support all of the SOP Classes requested in the Verification request. Receiving failures ("Not Verified") responses for SOP Classes outside the scope or capability of the server will not result in a communications failure.

For example, if the correct Image Store SOP Classes are supported and Structured Report is not, then Image Storage will work successfully, and SRs will not be sent to the server. If multiframe is not supported and loops are acquired, the transfer will fail. In this case however, the single frame images will transfer.

Association Negotiation Request message contents for each DICOM device:

Device Type	SOP Classes Requested	Additional Notes
DICOM Archive Server	US Image Storage US Image Storage (Retired) US Multiframe Storage US Multiframe Storage (Retired) 3D Subpage Storage Storage Commitment Comprehensive Structured Report Storage Verification	If SR is supported, then no other configuration is needed to allow SR to export. If SR is not desired, after verification, de-select Export SR from the Advanced configuration option for the server under Device Selection. Storage Commitment requires configuration of a commit server even if verified with the Archive device.
DICOM Commit Server	Storage Commitment Verification	This device must be configured even if the Archive device indicates commit is supported.
DICOM PPS Server	Modality Performed Procedure Step Verification	
DICOM Worklist Server	Modality Worklist Verification	MWL query settings are located in the Global System configuration page, the Modality Worklist Device Selection Page and in the Patient Search window of the Patient Data Entry screen.
DICOM Structured Report Server	Comprehensive Structured Report Storage Verification	Configuration of this device is only required if not supported by the archive, or if SRs are to be sent to a separate server. Note: both locations may not be
		configured simultaneously. All bw printers configure this entry.
DICOM BW Printer	Basic Grayscale META Print Verification	If the printer supports both BW and Color, then this must be configured to allow BW on that printer.
DICOM Color Printer	Basic Color META Print Verification	May be the same printer if color is also supported.

#### 4.3 PHYSICAL NETWORK INTERFACES

#### 4.3.1 Supported Communication Stacks

4.3.1.1 TCP/IP Stack

The iU22 and iE33 provides DICOM TCP/IP Network Communication Support as defined in Part 8 of the DICOM Standard.

#### 4.3.2 Physical Network Interface

iU22 and iE33 support a single network interface. The following physical network interface is available:

## Table 52 SUPPORTED PHYSICAL NETWORK INTERFACE

Ethernet 10/100/1000\*BaseT, RJ-45, UTP, STP; AutoDetect Speed, Full or Half Duplex

\* Note: 1000BaseT is only available on systems with "UMB" motherboard and is not user configurable.

#### 4.4 CONFIGURATION

#### AE Title/Presentation Address Mapping

The Devices Configuration section allows the following device types to be configured:

Device Type	Supported SOPs
DICOM Archive Server	Ultrasound Store Ultrasound Multiframe Store Comprehensive Structured Report Store* Storage Commitment Push Model** 3D Subpage Storage***
DICOM Commit Server	Storage Commitment Push Model**
DICOM PPS Server	Modality Performed Procedure Step
DICOM Worklist Server	Modality Work List
DICOM Structured Report Server	Comprehensive Structured Report Store*
DICOM BW Printer	Basic Grayscale Print Meta
DICOM Color Printer	Basic Color Print Meta

\* See section 4.4.1.2.1 below.

\*\* Storage Commitment must only be configured if supported by the Archive Server or a stand-alone server. In either case, the "Commit Server" and "Target Archive Server" must ONLY be configured if commitment is used.

\*\*\* May be configured off, uncompressed or compressed in Advanced Properties.

To configure a single server that supports image store, commitment and PPS, then a separate "Device" entry must be configured under Setups>Print/Network>Global Config>Devices>New Device, using the correct device type an appropriate AE Title, IP Address and Port data. The "Device Name" field is only used as an alias to identify the device in the system's user interface.

Note: In Archive Device Advanced Properties also contains the selection of Native Data export. This should not be selected unless a workstation using Philips' QLAB<sup>™</sup> analysis software, as the datasets are large, possibly affecting data transfer performance.

#### 4.4.1.1 Local AE Title

All local AEs use the same AE Title and TCP/IP Port configured via the Global Configuration Screen. The system listens on the configured Port only for Verification requests and Storage Commitment N-Event reports. All devices also support Verification as an SCU, allowing the use of the Verify button.

#### 4.4.1.2 Remote AE Title/Presentation Address Mapping

The AE Titles, IP Addresses and Port numbers of remote applications are manually configured using the Devices Configuration Screen. The system supports Static Addressing or DHCP to receive its IP Address, Subnet Mask and

Default Gateway address. The system Host name is not reported to the DNS server, and the system cannot be contacted by another system using the "System Name" displayed on Setups > Print/Network > Global Configuration.

#### 4.4.1.2.1 Image and Structured Report Storage

The New Device button on the Global Config > Devices Setup screen opens the Add Device dialog that allows configuration of the AE Titles, Port numbers, and IP Addresses for the remote Storage SCPs. Multiple remote Storage SCPs can be defined and three may be selected simultaneously for export.

User configuration of Monochrome (to match HDI 5000 system behavior) and use of Retired SOP Classes is located in the Print/Network > Print/Capture page.

User configuration to use Implicit Little Endian VR only is located in Print/Network > Device Selection > Advanced tab for the highlighted archive device. This setting does not apply to any other device than archive.

\* Structured Reports will be sent to an Archive device if SR support is confirmed using Verify. If the Archive does not support SR, and a separate SR server is available, additionally configure the DICOM Structured Report Server. After configuration of an archive device is completed, perform verification by using "Verify". Go to "Device Selection > Archive and select (highlight) the archive device. Select the "Advanced" button and make sure "Export Structured Report" is checked.

If SR support is confirmed using verify and measurements are made during the exam, a Structured Report will be sent to the archive. OB and Gyn measurements generate an OB SR report; Vascular and Abdominal measurements generate a Vascular SR report and Adult Echo measurements will create an Echo SR report. If no separate SR server is configured and the SOP Class fails negotiation on the Archive, then no SR objects will be created, however, a failed job will remain in the queue. This will need to be manually removed.

User Defined measurements will now be sent in an SR. No SR is sent for General, Small Parts, Breast or Pediatric Echo measurements.

#### 4.4.1.2.1.1 Advanced Archive Device Association Timeout Configuration

Three timeout settings may now be easily configured for each "Archive" device via its "Advanced" properties page.

ARTIM (Association Request/Reject/Release) Timeout

• The Timeout between establishment of a TCP/IP connection and the actual Association Request message. Also specified the maximum timeout between association reject or release and the actual TCP/IP disconnect.

#### Network Reply Timeout

 If there is no response from the SCP within this time period, the Network/Reply timer expires. The system will send a DICOM A-Associate-Release Rq.

#### Association Timeout SCU/SCP

• Association inactivity timeout. In most cases where the system is configured to Send After Each Image, this timeout needs to exceed the maximum idle time expected during normal use.

#### 4.4.1.2.1.2 Serial Structured Report Storage Configuration

Structured Report data may additionally be exported via a USB – RS-232 adapter cable to a null-modem RS-232 cable to a serial port configured for 115200 baud, 8 bits, No Parity, 1 Stop Bit and Xon-Xoff Flow Control. Output will be an XML representation of the DICOM SR object similar to DICOM Network structure.

#### 4.4.1.2.2 Workflow

Setup is used to set the AE Title, port-number and IP Address the remote MWL SCP. Multiple MWL SCPs may be defined, but only a single remote MWL SCP can be selected at a time.

All default MWL queries use Modality = US. This may now be changed in the MWL Query definition page, as a Custom entry.

AE Title may now be selected as the system default or a custom query value may be defined for a different AE Title.

Automated queries may be set for a specific time interval, Startup and every 15, 30, 45, 60, 75, 90, 105 or 120 minutes, or at End of Exam. Automated queries use the current date and Modality. They may additionally use "Station Name", "System Location" and "AE Title" to further refine the search.

Setup is used to set the AE Title, port-number and IP Address of the remote MPPS SCP. Multiple MPPS SCPs may be defined, but only a single remote MPPS SCP can be selected at a time.

#### 4.4.1.2.3 Hardcopy

Setup is used to set the AE Titles, Port numbers and IP Addresses for the remote Print SCPs.

Multiple remote Print SCPs can be defined, but up to one Grayscale and one Color Print SCP may be selected at a time.

Automatic sending of color images to the color printer and BW images to the BW printer is selectable in the Printer/Network > Print/Capture page's "Send Images/Clips" section.



#### 5.1 IMPLEMENTATION MODEL

5.1.1 Application Data Flow

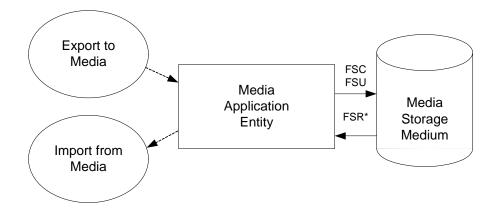


Figure 9 APPLICATION DATA FLOW DIAGRAM FOR MEDIA STORAGE

The Media Application Entity exports Images, 3D Presentation States and structured Reports to a disk Storage medium. It is associated with the local real-world activity "Export to Media". "Export to Media" is performed upon user request for selected patients, studies, series or instances (images, 3D Volumes, 3D Subpages or Structured Reports). The system may be configured to perform this task automatically at end of exam.

— Throughout this section, the term "Media" refers to any of the media listed below which is in use.

iU22 and iE33 will support the use of most writable media including CD-R, CD-RW, DVD-R, DVD+R, DVD-RW and DVD+RW. DICOM structure will be the same regardless of media used.

Note that although -R or +R media may be erased multiple times using "erase", the space may not be recovered. If a -R or +R media is "Erased", the previously written data is no longer available, and only the remaining unwritten space on the media is available for use. This restriction does not apply to +/-RW media. Erasing +/-RW media allows the entire disk's space to be used.

Note: the "send as you scan to media" and "delete exam from media" features have been removed from the product.

#### 5.1.2 Functional Definition of AEs

#### 5.1.2.1 Functional Definition of Media Application Entity

Using "Send to... Media" or automatic send at end of exam, will pass the currently selected patients' exams or individually selected images to the Media Application Entity. The SOP Instances associated with the selection will be collected into one or more export jobs. The contents of each export job will be written to the installed media. If the capacity of a disk is exceeded, the user is provided a dialog, stating capacity exceeded and to insert another disk.

#### 5.1.3 Sequencing of Real-World Activities

At least one image must exist and be selected before the Media Application Entity can be invoked. The operator can insert new media at any time. The Media Application Entity will wait indefinitely for media to be inserted before starting to write to the device. If no writable media is available, the Media queue management Icon will be Yellow.

#### 5.1.4 File Meta Information Options

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

DICOM IMPLEMENTATION CLASS AND VERSION FOR MEDIA STORAGE					
Implementation Class UID	1.3.46.670589.5.2.10				
Implementation Version Name	ACP1.1L4				

### Table 65 DICOM IMPLEMENTATION CLASS AND VERSION FOR MEDIA STORAGE

#### 5.2 AE SPECIFICATIONS

#### 5.2.1 Media Application Entity Specification

The Media Application Entity provides standard conformance to the DICOM Interchange Option of the Media Storage Service Class. The Application Profiles and roles are listed in

Table 66

APPLICATION PROFILES, ACTIVITIES AND ROLES FOR OFFLINE-MEDIA						
Application Profiles Supported	Real World Activity	Role	SC Option			
STD-US-SC-SF&MF-CDR	Send toMedia	FSC,				
STD-US-SC-SF&MF-DVD	Send toWedia	FSC, U**	Interchange			
STD-US-SC-SF&MF-CDR STD-US-SC-SF&MF-DVD	Send to Hard Disk	R*	interentinge			

\* File Set Reader functionality is limited only to media created by other iE33 or iU22 systems. \*\* Update functionality requires DVD+RW

#### 5.2.1.1 File Meta Information for the Application Entity

The File-Set Identifier included in the File Meta Header is "PHILIPS MIP".

#### 5.2.1.2 Real-World Activities

#### 5.2.1.2.1 Activity – Send to Media

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

The contents of the export job will be written together with a corresponding DICOMDIR to media. The user can cancel an export job in the job queue. Writing in multi-session format to CDs and DVDs is supported. Each export job is written as one session.

#### 5.2.1.2.2 Activity – Import from Media

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

The Patient Directory UI presents the directory of the system or the offline media. Selected exams are transferred from the media to the system for review. Objects transferred to the system retain their original SOP Instance UIDs.

Note: Structured Reports may not be read back into the iU22 or iE33.

Note: Import from 1.x media is allowed, but one cannot write onto a piece of media created on 1.x.

#### 5.2.1.2.3 Activity – Update to Media

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

The system user selects exams from the system's directory for transfer to media that already contains data. The DICOMDIR is updated allowing access to original and new data.

DVD +RW media may be erased at any time, removing all previously recorded data.

#### 5.2.1.2.3.1 Media Storage Application Profiles

See Table 66 for supported Application Profiles.

#### 5.2.1.2.3.2 Options

The Media Application Entity supports the SOP Classes and Transfer Syntaxes listed in Table 67.

Table 67
IODS, SOP CLASSES AND TRANSFER SYNTAXES FOR OFFLINEMEDIA

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			
		Explicit VR Little Endian	1.2.840.10008.1.2.1			
US Image Storage*	1.2.840.10008.5.1.4.1.1.6.1	JPEG Lossy Baseline	1.2.840.10008.1.2.4.50			
		JPEG Lossless Baseline	1.2.840.10008.1.2.4.70			
		Explicit VR Little Endian	1.2.840.10008.1.2.1			
US Image Storage (Retired)*	1.2.840.10008.5.1.4.1.1.6	JPEG Lossy Baseline	1.2.840.10008.1.2.4.50			
		JPEG Lossless Baseline	1.2.840.10008.1.2.4.70			
		Explicit VR Little Endian	1.2.840.10008.1.2.1			
US Multiframe Image Storage*	1.2.840.10008.5.1.4.1.1.3.1	JPEG Baseline Lossy Compression	1.2.840.10008.1.2.4.50			
LIS Multiframa Imaga Storaga		Explicit VR Little Endian	1.2.840.10008.1.2.1			
US Multiframe Image Storage (Retired)*	1.2.840.10008.5.1.4.1.1.3	JPEG Baseline Lossy Compression	1.2.840.10008.1.2.4.50			

Comprehensive Structured Report Storage	1.2.840.10008.5.1.4.1.1.88.33	Explicit VR Little Endian	1.2.840.10008.1.2.1				
Private 3D Presentation State**	1.3.46.670589.2.5.1.1	Explicit VR Little Endian	1.2.840.10008.1.2.1				
* See details listed in Table 9. ** For import to Philips QLAB or Xcelera workstations only.							

#### 6 SUPPORT OF CHARACTER SETS

All iU22 and iE33 DICOM applications support the

ISO\_IR 100 (ISO 8859-1:1987 Latin Alphabet No. 1 supplementary set)

### 7 SECURITY

DICOM security is not implemented on the iU22 or iE33 at this time.

iU22 and iE33 incorporate an internal firewall that only accepts incoming traffic on the designated listening port, as configured in the System tab of the Global Configuration screen.

#### 8 ANNEXES

#### 8.1 CREATED IOD INSTANCES

Table 69 specifies the attributes of an Ultrasound Image transmitted by the iU22 and iE33 storage application.

Table 70 specifies the attributes of a Comprehensive Structured Reports transmitted by the iU22 and iE33 storage application. Please note that there are differences between which Structured Report Templates are used in each product.

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

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

EMPTY Attribute is sent without a value

The abbreviations used in the "Source" column:

MWL	the attribute value source Modality Worklist
-----	--

- USER the attribute value source is from User input
- AUTO the attribute value is generated automatically
- MPPS the attribute value is the same as the Modality Performed Procedure Step service
- CONFIG the attribute value source is a configurable parameter
- 8.1.1 US or US Multiframe Image IOD

	IOD OF CREATED US OR US MU	JLTIFRAME SOP IN	STANCES
IE	Module	Reference	Presence of Module
Patient	Patient	Table 71	ALWAYS
Study	General Study	Table 72	ALWAYS
Sludy	Patient Study	Table 73	ALWAYS
Series	General Series	Table 74	ALWAYS
Equipment	General Equipment	Table 75	ALWAYS
	General Image	Table 76	ALWAYS
	Image Pixel	Table 77	ALWAYS
	Cine	Table 78	Only if Multi-frame
Imaga	Multi-frame	Table 79	Only if Multi-frame
Image	US Region Calibration	Table 80	ANAP
	US Image	Table 81	ALWAYS
	VOI LUT	Table 82	Only if Single frame
	SOP Common	Table 83	ALWAYS

 Table 69

 IOD OF CREATED US OR US MULTIFRAME SOP INSTANCES

#### 8.1.2 Comprehensive Structured Report IOD

### Table 70 IOD OF CREATED COMPREHENSIVE STRUCTURED REPORT SOP INSTANCES

IE	Module	Reference	Presence of Module
Patient	Patient	Table 71	ALWAYS
Study	General Study	Table 72	ALWAYS
Sludy	Patient Study	Table 73	ALWAYS
Series	SR Document Series	Table 84	ALWAYS
Equipment	General Equipment	Table 75	ALWAYS
	SR Document General	Table 85	ALWAYS
Document	SR Document Content	Table 86	ALWAYS
	SOP Common	Table 87	ALWAYS

#### 8.1.3 Common Modules

Table 71 PATIENT MODULE OF CREATED SOP INSTANCES

Attribute Name	Тад	VR	Value	Presence of Value	Source
Patient's Name	(0010,0010)	PN	Same attribute of MWL or PDE input	ALWAYS	MWL/ USER
Patient ID	(0010,0020)	LO	From MWL, user input or system generated. Maximum 64 characters.	ALWAYS	MWL/ USER/ AUTO
Patient's Birth Date	(0010,0030)	DA	Same attribute of MWL or PDE input	VNAP	MWL/ USER
Patient's Sex	(0010,0040)	CS	Same attribute of MWL or PDE input	VNAP	MWL/ USER
Other Patient IDs	(0010,1000)	LO	Same attribute of MWL	VNAP	MWL
Ethnic Group	(0010,2160)	SH	Same attribute of MWL	VNAP	MWL
Patient Comments	(0010,4000)	LT	Same attribute of MWL or PDE input MWL input limited to 3500 characters PDE input limited to 100 characters	VNAP	MWL/ USER

### Table 72 GENERAL STUDY MODULE OF CREATED SOP INSTANCES

_						
Attribute Name	Tag	VR	Value	Presence of Value	Source	
Study Instance UID	(0020,000D)	UI	Same value as in MWL or auto generated	ALWAYS	MWL/ AUTO	
Study Date	(0008,0020)	DA	Study's Start Date (0040,0244).	ALWAYS	AUTO	
Study Time	(0008,0030)	ТМ	Study's Start Time (0040,0245).	ALWAYS	AUTO	
Referring Physician's Name	(0008,0090)	PN	Only Last, First and Middle names from MWL, sent as "Last, First, Middle" in the Last name field; or PDE input.	VNAP	MWL/ USER	

Attribute Name	Тад	VR	Value	Presence of Value	Source
Study ID	(0020,0010)	SH	MWL Requested Procedure ID (0040,1001) or auto-generated	ALWAYS	MWL/ AUTO
Accession Number	(0008,0050)	SH	Same attribute of MWL or user PDE input.	VNAP	MWL/ USER
Study Description	(0008,1030)	LO	MWL Scheduled Procedure Step Description (0040,0007) or PDE input	VNAP	MWL/ USER
Physician(s) of Record	(0008,1048)	PN	Mapped from Names of Intended Recipients of Results (0040,1010) from MWL, otherwise not present	ANAP	MWL
Referenced Study Sequence	(0008,1110)	SQ	One item per item in the MWL Referenced Study Sequence. Absent if unscheduled.	ANAP	MWL
>Referenced SOP Class UID	(0008,1150)	UI	Same value as in of the Referenced Study Sequence in the MWL	VNAP	MWL
>Referenced SOP Instance UID	(0008,1155)	UI	Same value as in of the Referenced Study Sequence in the MWL	VNAP	MWL
>Requested Procedure Description	(0032,1060)	LO	Same value as MWL attribute	VNAP	MWL
Procedure Code Sequence	(0008,1032)	SQ	MWL Requested Procedure Code Sequence (0032,1064) Absent if unscheduled.	ANAP	MWL
>Code Value	(0008,0100)	SH	Same value as MWL attribute	VNAP	MWL
>Coding Scheme Designator	(0008,0102)	SH	Same value as MWL attribute	VNAP	MWL
>Coding Scheme Version	(0008,0103)	SH	Same value as MWL attribute	VNAP	MWL
>Code Meaning	(0008,0104)	LO	Same value as MWL attribute	VNAP	MWL

 Table 73-a

 PATIENT STUDY MODULE OF CREATED SOP INSTANCES

Attribute Name	Тад	VR	Value	Presence of Value	Source
Admitting Diagnosis Description	(0008,1080)	LO	Same attribute as MWL attribute	VNAP	MWL
Patient Size	(0010,1020)	DS	Same value as MWL attribute or PDE input	VNAP	MWL/ USER
Patient's Weight	(0010,1030)	DS	Same value as MWL attribute or PDE input	VNAP	MWL/ USER
Additional Patient's History	(0010,21B0)	LT	Same value as MWL attribute	VNAP	MWL

 Table 73-b

 PATIENT MEDICAL MODULE OF CREATED SOP INSTANCES\*

Attribute Name	Tag	VR	Value	Presence of Value	Source
Medical Alerts	(0010,2000)	LO	Same value as MWL attribute	VNAP	MWL

Attribute Name	Тад	VR	Value	Presence of Value	Source			
Pregnancy Status	(0010,21C0)	US	Same value as MWL attribute	ANAP	MWL			
*Note: These tags extend the standard US Image and US Multiframe Image IODs								

 Table 74

 GENERAL SERIES MODULE OF CREATED IMAGE SOP INSTANCES

Attribute Name	Тад	VR	Value	Presence of Value	Source
Modality	(0008,0060)	CS	"US"	ALWAYS	AUTO
Presentation Intent Type	(0008,0068)	CS	This attribute is defined for the DX Series. It is added here as an extension to the General Series for Ultrasound. "FOR PRESENTATION" if this is Series 1, containing the standard ultrasound images. "FOR PROCESSING" if this is Series 4, containing Ultrasound Multiframe 3D volumes, intended only for processing by Philips 3D viewers.	ALWAYS	AUTO
Series Instance UID	(0020,000E)	UI	Auto-generated	ALWAYS	AUTO
Series Number	(0020,0011)	IS	A number unique within the Study.	ALWAYS	AUTO
Series Date	(0008,0021)	DA	Date of first image in series.	ALWAYS	AUTO
Series Time	(0008,0031)	ТМ	Time of first image in series.	ALWAYS	AUTO
Performing Physician's Name	(0008,1050)	PN	MWL Scheduled Performing Physician's Name (0040,0006)	VNAP	MWL
Protocol Name	(0018,1030)	LO	"Free Form" "Exercise 2 Stage" "Exercise 3 Stage" "Pharmacological 4 Stage" "Wall Motion and Contrast" "Quantitative 4 Stage" user defined	ALWAYS	AUTO
Series Description	(0008,103E)	LO	Same as Study Description when from MWL.	ANAP	MWL/ USER
Operator's Name	(0008,1070)	PN	From PDE "Sonographer" field	VNAP	USER
Referenced Performed Procedure Step Sequence	(0008,1111)	SQ	Identifies the MPPS SOP Instance this image is related to	ALWAYS	MPPS
>Referenced SOP Class UID	(0008,1150)	UI	PPS SOP Class = "1.2.840.10008.3.1.2.3.3"	ALWAYS	MPPS
>Referenced SOP Instance UID	(0008,1155)	UI	PPS Instance UID of the PPS generating this image	ALWAYS	MPPS
Request Attributes Sequence	(0040,0275)	SQ		ALWAYS	AUTO / MWL
>Requested Procedure ID	(0040,1001)	SH	Auto-generated=Study ID or value from MWL. One item.	ALWAYS	AUTO / MWL

Attribute Name	Тад	VR	Value	Presence of Value	Source
>Scheduled Procedure Step ID	(0040,0009)	SH	Auto-generated=Study ID or value from MWL. One item.	ALWAYS	AUTO / MWL
>Scheduled Procedure Step Description	(0040,0007)	LO	Same value as MWL attribute.	VNAP	MWL
>Scheduled Protocol Code Sequence	(0040,0008)	SQ	Same value as MWL attribute.	VNAP	MWL
Performed Procedure Step ID	(0040,0253)	SH	Auto-generated=Study ID or value from MWL. One item.	ALWAYS	AUTO / MWL
Performed Procedure Step Start Date	(0040,0244)	DA	See Table 30	ALWAYS	AUTO
Performed Procedure Step Start Time	(0040,0245)	ТМ	See Table 30	ALWAYS	AUTO
Performed Procedure Step Description	(0040,0254)	LO	MWL Scheduled Procedure Step Description (0040,0007) or PDE input if any.	VNAP	USER / MWL
Performed Protocol Code Sequence	(0040,0260)	SQ	Zero length, or mapped from MWL Scheduled Protocol Code Sq (0040,0008)	VNAP	MWL

### Table 75 GENERAL EQUIPMENT MODULE OF CREATED SOP INSTANCES

Attribute Name	Тад	VR	Value	Presence of Value	Source
Manufacturer	(0008,0070)	LO	Philips Medical Systems	ALWAYS	AUTO
Institution Name	(0008,0080)	LO	From Setups configuration* (requires power cycle)	VNAP	CONFIG
Station Name	(0008,1010)	SH	From Setups configuration	VNAP	CONFIG
Manufacturer's Model Name	(0008,1090)	LO	iU22 or iE33	ALWAYS	AUTO
Device Serial Number	(0018,1000)	LO	Encoded, also used as component of system generated private UIDs.	ALWAYS	AUTO
Software Version	(0018,1020)	LO	PMS5.1 Ultrasound iU22_4.0.x.x PMS5.1 Ultrasound iE33_4.0.x.x	ALWAYS	AUTO

\* Always cycle system power after changing Institution Name prior to sending data.

#### 8.1.4 US or Multiframe Image Modules

### Table 76 GENERAL IMAGE MODULE OF CREATED US SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Instance Number	(0020,0013)	IS	Generated by device, increments from "1" in each series	ALWAYS	AUTO
Content Date	(0008,0023)	DA	<yyyymmdd></yyyymmdd>	ALWAYS	AUTO

Attribute Name	Тад	VR	Value	Presence of Value	Source
Content Time	(0008,0033)	ТМ	<hhmmss></hhmmss>	ALWAYS	AUTO
Image Type	(0008,0008)	CS	ORIGINAL/PRIMARY/ <analysis type*=""> for uncompressed, DERIVED/PRIMARY/ &lt; Analysis Type *&gt; if compressed</analysis>	ALWAYS	CONFIG
Acquisition Datetime	(0008,002A)	DT	The date and time that the acquisition of data that resulted in this image started.	ALWAYS	AUTO
Derivation Description	(0008,2111)	ST	"Uncompressed" for US Image or "Low", "Medium" or "High" for USMF Image based on configuration setting	ALWAYS	AUTO
Source Image Sequence	(0008,2112)	SQ	This sequence will be present only for 3D images from motorized 3D transducers, or freehand acquisition from single-array transducers.	ANAP	AUTO
> Referenced SOP Class UID	(0008,1150)	UI	SOP Class UID of Ultrasound Multiframe Image	ANAP	AUTO
> Referenced SOP Instance UID	(0008,1155)	UI	The value is the SOP Instance UID of the associated 3D volume. This value links this image, intended for first- order presentation, to a US Multiframe image in Series 4, which is intended as source data for proprietary 3D viewing applications.	ANAP	AUTO
> Purpose of Reference Code Sequence	(0040,A170)	SQ		ANAP	AUTO
>> Coding Scheme Designator	(0008,0102)	SH	"DCM"	ANAP	AUTO
>> Code Value	(0008,0100)	SH	"121324"	ANAP	AUTO
>> Code Meaning	(0008,0104)	LO	"Source Image" (comment from DICOM PS 3.16: "image used as the source for a derived or compressed image")	ANAP	AUTO
Burned In Annotation	(0028,0301)	CS	Set to "YES"	ALWAYS	AUTO
Lossy Image Compression	(0028,2110)	CS	"01" if image is lossy compressed, "00" if not.	ALWAYS	AUTO
Lossy Image Compression Ratio	(0028,2112)	DS	A value is present, currently "0" for loops. For Lossy Compressed Single Frame images, the following is sent: Lossy Low = 100 Lossy Med = 95 Lossy High = 90	ANAP	AUTO
Presentation LUT Sequence	(2050,0010)	SQ	Provided as an extension to the Ultrasound Multiframe IOD. Present only for 3D volume objects in Series 4.	ANAP (Mutually exclusive with (2050,0020)	AUTO

Attribute Name	Tag	VR	Value	Presence of Value	Source
> LUT Description	(0028,3002)	US or SS	[256 / 0 / 16]]	ANAP	AUTO
> LUT Data	(0028,3006)	US or SS or OW	[P0 / P1 P255] Array of 256 16-bit values mapping the output range of the VOI LUT to P-values	ANAP	AUTO
Presentation LUT Shape	(2050,0020)	CS	"IDENTITY" Only if "Image Export Format" is GSDF.	ANAP	AUTO

\* Analysis Type selection is determined by the analysis package associated with the transducer / preset selection.

### Table 77 IMAGE PIXEL MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source				
Samples per Pixel	(0028,0002)	US	See US Image Module Table 81	ALWAYS	AUTO				
Photometric Interpretation	(0028,0004)	CS	See US Image Module Table 81	ALWAYS	AUTO				
Rows	(0028,0010)	US	Image height in pixels: 240*, 300**, 480***, 600****, 768*****, 1024******, 1050*******	ALWAYS	CONFIG				
Columns	(0028,0011)	US	Image width in pixels: 320*, 400**, 640***, 800****, 1024*****, or 1280******, 1680******	ALWAYS	CONFIG				
Bits Allocated	(0028,0100)	US	8 Bits per pixel.	ALWAYS	AUTO				
Bits Stored	(0028,0101)	US	Number of info bits in pixel: "8" Color: 24; BW: 8.	ALWAYS	AUTO				
High Bit	(0028,0102)	US	High bit is 7	ALWAYS	AUTO				
Pixel Representation	(0028,0103)	US	"0" pixels are Unsigned integers	ALWAYS	AUTO				
Pixel Data	(7FE0,0010)	OW / OB		ALWAYS	AUTO				
Planar Configuration	(0028,0006)	US	Must be present when image is RGB. Value is "0".	ALWAYS	AUTO				

Image Size (Rows and Columns) details:

\* = ROI Multiframe images on non-Wide Screen systems

\*\*= ROI Multiframe images on Wide Screen systems

\*\*\* = Multiframe images, on non-Wide Screen systems

\*\*\*\*= Multiframe images, on Wide Screen systems

\*\*\*\*\* = Single Frame Display Area only images and

\*\*\*\*\*\* = Single Frame Full Screen images (no scaling data), and Patient Data Entry screen

\*\*\*\*\*\*\*= New Single Frame full screen on Wide Screen systems only.

Table 78
CINE MODULE OF CREATED US MULTIFRAME SOP

Attribute Name	Tag	VR	Value	Presence of Value	Source
Frame Time	(0018,1063)	DS	Frame time in milliseconds	ANAP	AUTO

 Table 79

 MULTI-FRAME MODULE OF CREATED US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Number of Frames	(0028,0008)	IS	# of frames in object	ANAP	AUTO
Frame Increment Pointer	(0028,0009)	AT	(0018,1063) Frame Time only	ANAP	AUTO

#### Table 80

#### US REGION CALIBRATION MODULE OF CREATED US IMAGE OR US MULTIFRAME IMAGE SOP INSTANCES

Attribute Name	Тад	VR	Value	Presence of Value	Source
Sequence of Ultrasound Regions	(0018,6011)	SQ	A sequence is present for each region on the system display, except for ECG regions. Only when set for "Display Area". No scaling for "Full Screen" images, rendered 3D.	ANAP	AUTO
>Region Location Min x <sub>0</sub>	(0018,6018)	UL	Top Left position of region.	ALWAYS	AUTO
>Region Location Min y <sub>0</sub>	(0018,601A)	UL	Top Left position of region	ALWAYS	AUTO
>Region Location Max x <sub>1</sub>	(0018,601C)	UL	Bottom Right position of region	ALWAYS	AUTO
>Region Location Max y <sub>1</sub>	(0018,601E)	UL	Bottom Right position of region	ALWAYS	AUTO
>Physical Units X Direction	(0018,6024)	US	Enumerated Value. 2D Image = 0003H = CM Mmode / Doppler = 0004H = SEC	ALWAYS	AUTO
>Physical Units Y Direction	(0018,6026)	US	Enumerated Value. 2D Image = 0003H = CM Mmode = 0003H = CM Doppler = 0007H = CM / SEC	ALWAYS	AUTO
>Physical Delta X	(0018,602C)	FD	The physical value per pixel increment	ALWAYS	AUTO
>Physical Delta Y	(0018,602E)	FD	The physical value per pixel increment	ALWAYS	AUTO
>Reference Pixel X0	(0018,6020)	SL	The X pixel value of baseline, Doppler only	ANAP	AUTO
>Reference Pixel Y0	(0018,6022)	SL	The Y pixel value of baseline, Doppler only	ANAP	AUTO
>Region Spatial Format	(0018,6012)	US	Enumerated Value. 2D (tissue or flow) = 0001H M-Mode (tissue or flow) = 0002H Spectral (CW or PW Doppler) = 0003H	ALWAYS	AUTO
>Region Data Type	(0018,6014)	US	Enumerated Value. Tissue = 0001H	ALWAYS	AUTO

Attribute Name	Тад	VR	Value	Presence of Value	Source
			PW Spectral Doppler = 0003H		
			CW Spectral Doppler = 0004H		
>Region Flags	(0018,6016)	UL	Bit mask. See DICOM PS3.3 C.8.5.5.1.3:	ALWAYS	AUTO

### Table 81 US IMAGE MODULE OF CREATED US IMAGE OR US MULTIFRAME IMAGE SOP INSTANCES

				Presence	
Attribute Name	Tag	VR	Value	of Value	Source
Samples Per Pixel	(0028,0002)	US	"1" for Monochrome2, only if "Export Monochrome" is selected, otherwise,	ALWAYS	AUTO
Dha ta sa ta'a			"3" for RGB or YBR_FULL_422		
Photometric Interpretation	(0028,0004)	CS	Uncompressed: "Monochrome2" or "RGB" Compressed: "YBR_FULL_422"	ALWAYS	CONFIG
Bits Allocated	(0028,0100)	US	8 Bits per pixel.	ALWAYS	AUTO
Bits Stored	(0028,0101)	US	Number of info bits in pixel: "8" Color: 24; BW: 8.	ALWAYS	AUTO
High Bit	(0028,0102)	US	High bit is 7	ALWAYS	AUTO
Planar Configuration	(0028,0006)	US	Always "0",	ALWAYS	Αυτο
Pixel Representation	(0028,0103)	US	"0" Pixels are Unsigned integers	ALWAYS	AUTO
Frame Increment Pointer	(0028,0009)	AT	(0018,1063) "Frame Time" only.	ANAP	AUTO
Image Type	(0008,0008)	CS	See Table 76	ALWAYS	CONFIG
Lossy Image Compression	(0028,2110)	CS	"01" if image is lossy compressed, "00" if not.	ALWAYS	AUTO
Number of Stages	(0008,2124)	IS	1-n	ANAP	AUTO
Number of Views in Stage	(0008,212A)	IS	1-n	ANAP	AUTO
Ultrasound Color Data Present	(0028,0014)	US	0 or 1	ALWAYS	AUTO
Stage Name	(0008,2120)	SH	REST, PEAK, POST, IMPOST, BASE, LOW, user defined	ANAP	AUTO
Stage Code Sequence	(0040,000A)	SQ	Sequence of items describing the performed Ultrasound Protocol Stage(s). See Baseline Context ID 12002 for possible contents.	ANAP	AUTO
Stage Number	(0008,2122)	IS	1-n	ANAP	AUTO
View Name	(0008,2127)	SH	LAX, SAX, AP4, AP2, AP3, user defined	ANAP	AUTO
View Number	(0008,2128)	IS	1-n	ANAP	AUTO
Number of Event Timers	(0008,2129)	IS	1-n	ANAP	AUTO
Event Elapsed Time(s)	(0008,2130)	DS	nnn msec.	ANAP	AUTO
Event Timer Name(s)	(0008,2132)	LO	Timer	ANAP	AUTO

Attribute Name	Тад	VR	Value	Presence of Value	Source
View Code Sequence	(0054,0220)	SQ	Sequence that describes the view of the patient anatomy in this image. Only a single Item shall be permitted in this Sequence.		
Acquisition Datetime	(0008,002A)	DT	The date and time that the acquisition of data that resulted in this image started.	ALWAYS	Αυτο
Trigger Time	(0018,1060)	DS	nnn msec.	ANAP	AUTO
Heart Rate	(0018,1088)	IS	Beats per minute	ANAP	AUTO
Transducer Data	(0018,5010)	LO	Transducer name	ALWAYS	AUTO
Processing Function	(0018,5020)	LO	Imaging optimization name.	ALWAYS	AUTO

### Table 82 VOI LUT MODULE OF CREATED US SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Window Center	(0028,1050)	DS	Fixed at 127	ANAP	AUTO
Window Width	(0028,1051)	DS	Fixed at 254	ANAP	AUTO

### Table 83 SOP COMMON MODULE OF CREATED US IMAGE OR US MULTIFRAME IMAGE SOP INSTANCES

Attribute Name	Тад	VR	Value	Presence of Value	Source
SOP Class UID	(0008,0016)	UI	1.2.840.10008.5.1.4.1.1.6.1 or 1.2.840.10008.5.1.4.1.1.6 for US Image 1.2.840.10008.5.1.4.1.1.3.1 or 1.2.840.10008.5.1.4.1.1.3 for US Multiframe Image	ALWAYS	AUTO
SOP Instance UID	(0008,0018)	UI	Generated by device	ALWAYS	AUTO
Specific Character Set	(0008,0005)	CS	Attribute only sent if an Extended or Replacement Character Set is used	ANAP	AUTO
Instance Creation Date	(0008,0012)	DA	<yyyymmdd></yyyymmdd>	ALWAYS	AUTO
Instance Creation Time	(0008,0013)	ТМ	<hhmmss></hhmmss>	ALWAYS	AUTO

#### 8.1.5 Comprehensive Structured Report Modules

#### Table 84 SR DOCUMENT SERIES MODULE OF CREATED COMPREHENSIVE SR SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Modality	(0008,0060)	CS	"SR"	ALWAYS	AUTO
Series Instance UID	(0020,000E)	UI	Auto-generated	ALWAYS	AUTO
Series Number	(0020,0011)	IS	A number unique within the Study	ALWAYS	AUTO
Referenced Performed Procedure Step Sequence	(0008,1111)	SQ	Identifies the MPPS SOP Instance to which this image is related	ALWAYS	MPPS
>Referenced SOP Class UID	(0008,1150)	UI	PPS SOP Class = "1.2.840.10008.3.1.2.3.3"	ALWAYS	MPPS
<ul> <li>Referenced</li> <li>SOP Instance</li> <li>UID</li> </ul>	(0008,1155)	UI	PPS Instance UID of the PPS generating this document	ALWAYS	MPPS

### Table 85 SR DOCUMENT GENERAL MODULE OF CREATED COMPREHENSIVE SR SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Instance Number	(0020,0013)	IS	Unique number	ALWAYS	AUTO
Completion Flag	(0040,A491)	CS	PARTIAL	ALWAYS	AUTO
Verification Flag	(0040,A493)	CS	UNVERIFIED	ALWAYS	AUTO
Content Date	(0008,0023)	DA	Date content created.	ALWAYS	AUTO
Content Time	(0008,0033)	ТΜ	Time content created.	ALWAYS	AUTO
Predecessor Documents Sequence	(0040,A360)	SQ	Used when Send of Demand is used and Send Structured Reports with Send on Demand is selected. Will indicate the preceding SR sent in the study.	ANAP	AUTO
>Study Instance UID	(0020,000D)	UI	Study's UID	ANAP	AUTO
>Referenced Series Sequence	(0008,1115)	SQ	Identifies the Series containing the referenced SR	ALWAYS	AUTO
>>Referenced SOP Sequence	(0008,1199)	SQ	SOP Instance UID for SR Series in the study	ALWAYS	AUTO
>>> Referenced SOP Class	(0008,1150)	UI	Comprehensive SR SOP Class 1.2.840.10008.5.1.4.1.1.88.33	ALWAYS	AUTO
>>> Referenced SOP Instance UID	(0008,1155)	UI	SOP Instance UID of the preceding SR in the study	ALWAYS	AUTO
Referenced Request Sequence	(0040,A370)	SQ	Identifies Requested Procedures being fulfilled (completely or partially) by creation of this Document.	ANAP	AUTO
>Study Instance UID	(0020,000D)	UI	Same value as in MWL or auto generated	ALWAYS	MWL/ AUTO

Attribute Name	Tag	VR	Value	Presence of Value	Source
>Referenced Study Sequence	(0008,1110)	SQ	1 item per item in MWL, zero length if unscheduled	ANAPVNAP	MWL
>>Referenced SOP Class UID	(0008,1150)	UI	Identifies the Referenced SOP Class	ANAP	MWL
>>Referenced SOP Instance UID	(0008,1155)	UI	Instance UID	ANAP	MWL
>Accession Number	(0008,0050)	SH	Same attribute of MWL or user PDE input.	VNAP	MWL/ USER
>Placer Order Number/Imaging Service Request	(0040,2016)	LO	Order Number of Imaging Service Request assigned by placer	VNAP	MWL
>Filler Order Number/Imaging Service Request	(0040,2017)	LO	Order Number of Imaging Service Request assigned by filler	VNAP	MWL
>Requested Procedure ID	(0040,1001)	SH	1 item per item in MWL, absent if unscheduled	ANAP	MWL
>Requested Procedure Description	(0032,1060)	LO	1 item per item in MWL, absent if unscheduled	ANAP	MWL
>Requested Procedure Code Sequence	(0032,1064)	SQ	1 item per item in MWL, zero length if unscheduled	VNAP	MWL
Performed Procedure Code Sequence	(0040,A372)	SQ	Codes of the performed procedure, zero length if unscheduled	VNAP	AUTO/ MWL

## Table 86 SR DOCUMENT CONTENT MODULE OF CREATED COMPREHENSIVE SR SOP INSTANCES

This table describes the template-specific data summarized from the following tables in the DICOM Standard: Document Content Macro, Document Relationship Macro, Numeric Measurement Macro and Code Macro

Attribute Name	Tag	VR	Value	Presence of Value	Source
Content Template Sequence	(0040,A504)	SQ		ALWAYS	AUTO
>Template Identifier	(0040,DB00)	CS	The Root Content Item identifies TID 5000 (OB-GYN), 5100 (Vascular). 5200 (Echo) or 995300 (Ped Echo).	ALWAYS	AUTO
>Mapping Resource	(0008,0105)	CS	DCMR	ALWAYS	AUTO
Content Sequence	(0040,A730)	SQ		ALWAYS	AUTO
>Relationship Type	(0040,A010)	CS	See <u>Template ID 5000</u> for OB-GYN, <u>Template ID 5100</u> for Vascular <u>Template ID 5200</u> for Adult Echo and <u>Template ID 995300</u> for Ped Echo	ALWAYS	AUTO
Document Relationship Macro Table			See <u>Template ID 5000</u> for OB-GYN, <u>Template ID 5100</u> for Vascular <u>Template ID 5200</u> for Adult Echo and <u>Template ID 995300</u> for Ped Echo	ANAP	AUTO

Attribute Name	Тад	VR	Value	Presence of Value	Source
Document Content Macro			See <u>Template ID 5000</u> for OB-GYN, <u>Template ID 5100</u> for Vascular <u>Template ID 5200</u> for Adult Echo and <u>Template ID 995300</u> for Ped Echo	ALWAYS	AUTO
Value Type	(0040,A040)	cs	CONTAINER, always first tag of SR Additional values used: TEXT, NUM, DATE, CODE, IMAGE, SCOORD	ALWAYS	AUTO
Concept Name Code Sequence	(0040,A043)	SQ		ALWAYS	AUTO
>Code Value	(0008,0100)		125000, 125100 125200 or 995300	ALWAYS	AUTO
>Coding Scheme Designator	(0008,0102)		DCM	ALWAYS	AUTO
>Code Meaning	(0008,0104)		"OB-GYN Ultrasound Procedure Report", "Vascular Ultrasound Procedure Report", "Adult Echocardiography Procedure Report" or Pediatric Echocardiography Procedure Report	ALWAYS	AUTO
Continuity of Content	(0040,A050)	CS	SEPARATE	ALWAYS	AUTO
Spatial Coordinates Macro			If and only if Value Type (0040,A040) = SCOORD	ANAP	AUTO
Graphic Data	(0070,0022)		Order set of Column \ Row pairs defining positions in a reference image	ANAP	AUTO
Graphic Type	(0070,0023)		Polyline	ANAP	AUTO
Numeric Measurement Macro			See <u>Template ID 5000</u> for OB-GYN, <u>Template ID 5100</u> for Vascular <u>Template ID 5200</u> for Adult Echo and <u>Template ID 995300</u> for Ped Echo	ALWAYS	AUTO
Code Macro			See <u>Template ID 5000</u> for OB-GYN, <u>Template ID 5100</u> for Vascular <u>Template ID 5200</u> for Adult Echo and <u>Template ID 995300</u> for Ped Echo	ALWAYS	AUTO

### Table 87 SOP COMMON MODULE OF CREATED COMPOSITE SR SOP INSTANCES

Attribute Name	Тад	VR	Value	Presence of Value	Source
SOP Class UID	(0008,0016)	UI	1.2.840.10008.5.1.4.1.1.88.33	ALWAYS	AUTO
SOP Instance UID	(0008,0018)	UI	Generated by device	ALWAYS	AUTO
Specific Character Set	(0008,0005)	CS	"None", unless required by characters used	ALWAYS	CONFIG

#### 8.2 USED FIELDS IN RECEIVED IOD BY APPLICATION

The iU22 and iE33 storage applications do not receive SOP Instances. The usage of attributes received via MWL is described in section 4.2.2.3.1.3 SOP Specific Conformance for Modality Worklist.

#### 8.3 ATTRIBUTE MAPPING

Table 88 summarizes the relationships between attributes received via MWL, stored in acquired images and communicated via MPPS. The format and conventions used in Table 88 are the same as the corresponding table in IHE Technical Framework, Rev. 5.5 04-07-2003, vol. II: Transactions.

ATTRIBUTE MAPPING BETWEEN MODALITY WORKLIST, IMAGE AND MPPS				
Modality Worklist	Image IOD	MPPS IOD		
Patient's Name	Patient's Name	Patient's Name		
Patient ID	Patient ID	Patient ID		
Patient's Birth Date	Patient's Birth Date	Patient's Birth Date		
Patient's Sex	Patient's Sex	Patient's Sex		
Patient's Weight	Patient's Weight			
Referring Physician's Name	Referring Physician's Name			
		Scheduled Step Attributes Sequence		
Study Instance UID	Study Instance UID	>Study Instance UID		
Referenced Study Sequence	Referenced Study Sequence	>Referenced Study Sequence		
Accession Number	Accession Number	>Accession Number		
	Request Attributes Sequence			
Requested Procedure ID	>Requested Procedure ID	>Requested Procedure ID		
Requested Procedure Description	>Requested Procedure Description	>Requested Procedure Description		
Scheduled Procedure Step ID	>Scheduled Procedure Step ID	>Scheduled Procedure Step ID		
· · · · · ·	>Scheduled Procedure Step Description			
Scheduled Procedure Step Description	<ul> <li>&gt; Study Description</li> <li>&gt; Series Description</li> <li>&gt; Performed Procedure Step Description</li> </ul>	>Scheduled Procedure Step Description		
Scheduled Protocol Code Sequence	>Scheduled Protocol Code Sequence			
	Performed Protocol Code Sequence	Performed Protocol Code Sequence		
	Study ID – Requested Procedure ID from MWL, else generated	Study ID – Requested Procedure ID from MWL, else generated		
	Performed Procedure Step ID	Performed Procedure Step ID		
	Performed Procedure Step Start Date	Performed Procedure Step Start Date		
	Performed Procedure Step Start Time	Performed Procedure Step Start Time		
	Performed Procedure Step Description	Performed Procedure Step Description		
		Performed Series Sequence		
Requested Procedure Code Sequence	Procedure Code Sequence	Procedure Code Sequence		
	Referenced Performed Procedure Step Sequence			
	>Referenced SOP Class UID	SOP Class UID		

Table 88 ATTRIBUTE MAPPING BETWEEN MODALITY WORKLIST, IMAGE AND MPPS

Modality Worklist	Image IOD	MPPS IOD
	Protocol Name	Protocol Name

#### 8.4 COERCED/MODIFIED FIELDS

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

#### 8.5 CONTROLLED TERMINOLOGY

The Workflow AE is capable of supporting arbitrary coding schemes for Procedure and Protocol Codes. The contents of Requested Procedure Code Sequence (0032,1064) and Scheduled Protocol Code Sequence (0040,0008) supplied in Worklist Items will be mapped to Image IOD and MPPS attributes as described in Table 88.

Structured Reporting uses codes supplied by DCMR (DICOM Code Mapping Resource, PS 3-16), LOINC, SRT and 99PMSBLUS (Philips Private Codes for Ultrasound).

#### 8.6 GRAYSCALE IMAGE CONSISTENCY

The high-resolution display monitor is calibrated according to the Grayscale Standard Display Function (GSDF).

#### 8.7 EXTENSIONS / SPECIALIZATIONS / PRIVATIZATIONS

#### 8.7.1 Standard Extended / Specialized / Private SOPs

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

3D objects stored to media include the same Pixel Data contents as above and 3D volume data in Private Tags solely for use by iU22 and iE33 for redisplay of the volume information.

The tags that are sent via network or media are depended on settings for the specific destination, as found in "Print/Network>Device Selection and either the "Media" tab or "Archive" tab and the "Advanced" button for the highlighted archive device.

#### 8.7.2 Private SOP Class – 3D Presentation State Specification

#### 8.7.2.1 3D Presentation State SOP Class

iU22 and iE33 provide Standard Conformance to the following Private SOP Class:

Та	able 89
SOP CLASS FOR PRIVAT	TE 3D PRESENTATION STATE

SOP Class Name	SOP Class UID	SCU	SCP
Private 3D Presentation State	1.3.46.670589.2.5.1.1	Yes	No

#### 8.7.2.2 Association Establishment Policy

8.7.2.2.1 General

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

# Table 90 DICOM APPLICATION CONTEXT FOR PRIVATE 3D PRESENTATION STATE

Application Context Name	1.2.840.10008.3.1.1.1
--------------------------	-----------------------

#### 8.7.2.2.2 Number of Associations

iU22 and iE33 initiate one Association at a time for storage of a Private 3D Presentation state for each network store device, if configured to send 3D Presentation State. Configuration located in 'Advanced properties for the store device.

# Table 91 NUMBER OF ASSOCIATIONS INITIATED FOR PRIVATE 3D PRESENTATION STATE

Maximum number of simultaneous Associations	3, one for each configured remote device
---	--

#### 8.7.2.2.3 Asynchronous Nature

iU22 and iE33 do not support asynchronous communication (multiple outstanding transactions over a single Association).

Table 92 ASYNCHRONOUS NATURE AS A SCU FOR PRIVATE 3D PRESENTATION STA			
Maximum number of outstanding asynchronous transactions 1			

#### 8.7.2.2.4 Implementation Identifying Information

The implementation information for this Application Entity is:

Table 93           DICOM IMPLEMENTATION CLASS AND VERSION FOR PRIVATE 3D PRESENTATION STATE			
Implementation Class UID	1.3.46.670589.5.2.10		
Implementation Version Name	MIP5.1L4		

# 8.7.2.3 Association Initiation Policy

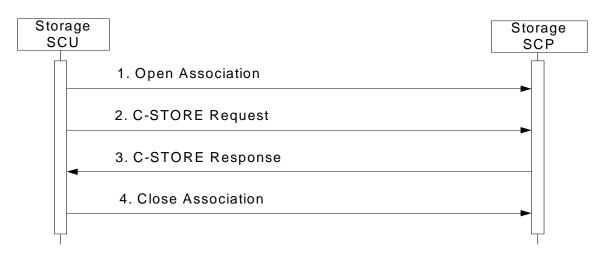
### 8.7.2.3.1 Activity – Store a Private 3D Presentation state

8.7.2.3.2 Description and Sequencing of Activities

The user's selection to store a 3D image initiates the activity to store the 3D Presentation State to the configured and selected remote storage device(s), using standard DICOM C-Store DIMSE commands.

iU22 and iE33 initiate an Association in order to issue:

- C-STORE request to store 3D Presentation State.



## Figure 8a SEQUENCING OF ACTIVITY – STORE PRIVATE 3D PRESENTATION STATE

#### 8.7.2.3.3 Proposed Presentation Contexts

iU22 and iE33 will propose Presentation Contexts as shown in the following table:

# Table 94 PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY STORE PRIVATE 3D PRESENTATION STATE

Presentation Context Table					
Abstract Syntax Transfer Syntax					
Name	UID	Name List UID List		Role	Ext. Neg.
Private 3D Presentation State	1.3.46.670589.2.5. 1.1	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2 1.2.840.10008.1.2.1	SCU	None

8.7.2.3.4 SOP Specific Conformance for storage of a Private 3D Presentation State

Table 96 summarizes the behavior of iU22 and iE33 when encountering status codes in a Private 3D Presentation State C-STORE response.

A message will appear on the user interface if iU22 or iE33 receive any other SCP response status than "Success."

Service Status	Further Meaning	Error Code	Behavior
Success	None	0000	Operations continue
Refused	SOP Class Not Supported	0112	Object is not stored, error message is logged and the user is informed
Failed	Unable to Process	C000 – CFFF	Same as "Refused" above.
*	*	Any other status code.	Same as "Refused" above.

# Table 95 PRIVATE 3D PRESENTATION STATE C-STORE RESPONSE STATUS HANDLING BEHAVIOR

Table 96 contains the tag ranges used in the private 3D Presentation State objects sent when 3D Subpages are stored.

# Table 96 CREATED PRIVATE 3D PRESENTATION STATE OBJECT PRIVATE CREATOR RANGE VALUES

DICOM Tag	Description
2001,xxxx	Private Data
200d,xxxx	Private Data

For a list of the bulk private tags, see <u>Appendix B</u>.

# 8.8 PRIVATE TRANSFER SYNTAXES

There are no Private Transfer Syntaxes.

# **APPENDIX A – Structured Reports**

# A.1 STRUCTURED REPORTS

#### A.1.1 Introduction

iU22 and iE33 implement Structured Report Templates TID 5000 (OB-GYN) (iU22-only), 5100 (Vascular) (both iU22 and iE33) and 5200 (Echo) (both iU22 and iE33) from DICOM Part 16 and TID 995300 (Ped Echo) (iE33-only) based on Supplement 78 version 2, May 8 2004. This Appendix describes the manner that iU22 and iE33 measurements appear in DICOM reports.

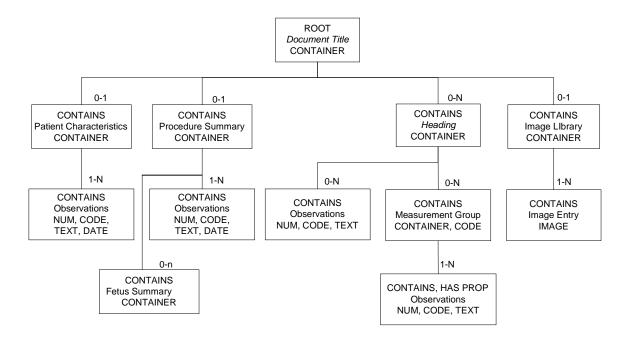
This Appendix contains tables of the measurement and calculations displayed on iU22 and iE33 calculation screens and the data dictionary of all code values, coding scheme designators and code meanings associated with those measurements and labels. There is no attempt to provide all tags that will be sent in the SR object. For those specifics, please refer to DICOM PS3-3, 3-16 and 3-17 for complete discussion on Comprehensive SOP Class support and the Templates described here.

Part 17 of the DICOM Standard includes tree diagrams showing graphic examples of the structure of each template.

Briefly, an SR document will contain only the measurements, calculations and observations made during the exam. Its exact structure is therefore determined by two main components, the measurements that are available within the context of the template and its referenced Templates and Context groups, and those measurements and calculations that are implemented on the system creating the report. Supplementing these constraints are private and user defined measurements and calculations, which may be added if the Root Container Template is extensible.

In the iU22 and iE33, the calculation packages contain a combination of template and user defined measurements and calculations. This Appendix contains a description of the calculation packages on each system and the related templates that support them. See the table in the Clinical Scope section below.

In each template section, there is a brief description of the mapping of measurement and calculation labels as they appear on the iU22 sidebars and iE33 Touch Screen buttons when the Analysis feature is enabled.



## A.1.1.2 Measurements Linked to Images – New for this software version

Spatial Coordinates (as defined by TID 320 row 3) are included for measurement sub-results whose measurement tools have been captured in an image (as defined by TID 300 row 13).

There are three special cases in which the Value Multiplicity for DTID 320 shall be greater than one:

a. If more than one image is captured of the same measurement tool, the sub-result will reference each image. b. For a complex measurement tool (the Simpson's Method of Disk Volume measurement) which with one user action creates 22 unique spatial coordinates, the first 20 spatial coordinate shall be the Chord values, the 21st spatial coordinate shall be the ventricular length measurement, and the 22nd spatial coordinate shall be the ventricular area measurement.

c. For Doppler velocity measurements made with a two-point or trace tool, there shall be two spatial coordinates per measurement. The first shall be the single point associated with the velocity measurement, and the second shall consist of all the points of the measurement tool.

## A.1.2 Clinical Scope

The supported measurements are located in Calcs packages accessed with the "Calc" hard key on iU22 and Analysis softkey on iE33. Measurements for a given SR section may come from several calcs sidebars/touch screens.

# APPLICATIONS THAT EXPORT STRUCTURED REPORTS FROM IU22 AND IE33

The following table illustrates the calculation packages that are on iU22 and iE33, which will export Structured Reports when selecting the Change Calcs option on iU22. The calculation application selection on iE33 is made when the "Preset/Transducer" selection is made.

Applications	iU22	iE33	Template ID	Notes
OB	Yes	No	<u>5000</u>	
GYN	Yes	No	<u>5000</u>	
Small Parts	No	No	N/A	Not supported
Fetal Echo	No	No	N/A	Not supported
Pediatric Echo	No	Yes	<u>995300</u>	
General	No	No	N/A	No export
Abdominal	Yes	No	<u>5100</u>	
Adult Echo	Yes	Yes	<u>5200</u>	
Vascular	Yes	Yes	<u>5100</u>	Includes Abdominal

Y = will export an SR, N = No SR Exported

See the appropriate Template Section for details on specific outputs from each system.

The mapping tables that follow illustrate the relationship between system calculation package labels as represented on the screen and on-system report displays and relate them to the associated code representations.

Each section, OB-GYN, Vascular, Echo and Ped Echo begins with a table detailing the relationships of the mapping table contents to the Templates, and the specified Context groups.

The Patient Data Entry (PDE) and Study Info Mapping section describes the labels of the fields present in the user interface that will be sent with the Structured Report, and referenced template and date types.

# Patient Data Entry (PDE) and Study Info Mapping

### Date Data Sent with All Reports, not entered in PDE

Label	Referenced Template ID (TID)	Туре	Origin
Study Date	Private	TEXT	Date exam originally started
Exam Date	Private	TEXT	Study Date, except when Report is generated during Append from

	Image Review. Please see detailed explanation in section 4.1.1.
--	---

The following table is the Patient / Study Data from Patient Data Entry which is added to all SRs. Each template section contains specific PDE data related to the particular examination type.

All of the following table's contents are listed in:

CONTAINER (121118, DCM, "Patient Characteristics") = SEPARATE

## General PDE / Study Info

Label	Referenced Template ID (TID)	Туре	Units
Patient Name	Private (99002)	TEXT	
Patient ID	Private (99002)	TEXT	
Patient's Birth Date	Private (99002)	DATE	
Patient's Sex	Private (99002)	TEXT	
Comments	See the applicable template	TEXT	
Patient Height	See the applicable template	NUM	m
Patient Weight	See the applicable template	NUM	kg
Accession Number	Private	TEXT	
Sonographer	Private	TEXT	
Study Description	Private	TEXT	
Referring Physician	Private	TEXT	

# TID 5000 OB-GYN ULTRASOUND PROCEDURE REPORT

The following tables present information used in Structured Reports for this template.

The tables are sorted by the Label value, which corresponds to the label displayed in the analysis application and reports displayed on the system.

The Measurements table is followed by the Calculations table and then a Concepts or Anatomic Location table which lists the actual Coding Scheme Designator, Code Value and Code Meaning used in the Template section.

The last table in the section is the list of Patient Data Entry (PDE) screen entries that will export in the Structured Report that is specific to the Study Type chosen in the PDE.

Reference for the columns in the mapping table to TID 5000 Columns:

- Group / Finding Site TID 5000 Rows 7-18, 21 and 24
- Concept TID 5000 Rows 7-18, 21 and 24
- Modifiers
  - Laterality (left/right)
  - Result (vascular subresults)
  - Derivation (calculated)
  - o Identifier (follicles)

Additional properties:

- Fetus ID
- Derivation = Estimated (user entry), Mean
- Selection Status = Mean / User-chosen
- Inferred from authorType, authorRef

TID 5017, Rows 17, 18 and 5025, Line 3 TID 5025, Row 4 as \$MeasType TID 5008, Row 2 as \$Derivation TID 5014, Row 2

TID 1008, Row 4 TID 300, Row 4 as \$Derivation, TID 310, Row 6 TID 5003 Row 5 and 5008 Row 4,as \$Equation

#### **Application: OB, Measurements**

Label	Group / Finding Site	Concept	Modifiers
AC	Fetal Biometry	Abdominal Circumference	
Adr Gland AP	Fetal Biometry	Adrenal Gland Antero-posterior	
		Dimension	
Adr Gland L	Fetal Biometry	Adrenal Gland Longitudinal	
		Dimension	
Adr Gland Tr	Fetal Biometry	Adrenal Gland Transverse	
		Dimension	
Ao Annul Diam	Fetal Heart	Aortic Annulus Diameter	
AoR Diam (2D)	Fetal Heart	Aortic Root Diameter	
Aorta	Embryonic Vascular Structure	Aorta	Result: End Diastolic Velocity
Aorta	Embryonic Vascular Structure	Aorta	Result: Minimum Diastolic Velocity
Aorta	Embryonic Vascular Structure	Aorta	Result: Peak Systolic Velocity
Aorta	Embryonic Vascular Structure	Aorta	Result: Time averaged mean velocity
Aorta	Embryonic Vascular Structure	Aorta	Result: Time averaged peak velocity
Aorta	Embryonic Vascular Structure	Aorta	Result: Acceleration Index
Aorta	Embryonic Vascular Structure	Aorta	Result: Peak Gradient
Aorta	Embryonic Vascular Structure	Aorta	Result: Pulsatility Index
Aorta	Embryonic Vascular Structure	Aorta	Result: Resistivity Index
Aorta	Embryonic Vascular Structure	Aorta	Result: Systolic to Diastolic Velocity
Aurta		Aorta	Ratio
Aorta	Embryonic Vascular Structure	Aorta	Result: Acceleration Time
Aorta	Embryonic Vascular Structure	Aorta	Result: Deceleration Time
Aorta	Embryonic Vascular Structure	Aorta	Result: Vessel lumen diameter
Aorta	Embryonic Vascular Structure	Aorta	Result: Velocity Time Integral
Aorta	Embryonic Vascular Structure	Aorta	Result: Heart Rate
Aorta	Embryonic Vascular Structure	Aorta	Result: Mean Gradient

Label	Group / Finding Site	Concept	Modifiers
Aorta	Embryonic Vascular Structure	Aorta	Result: Doppler Correction Angle
APD	Fetal Biometry	Anterior-Posterior Abdominal	
7.1.0	retar biometry	Diameter	
APTD	Fetal Biometry	Anterior-Posterior Trunk	
		Diameter	
Asc Ao Diam	Fetal Heart	Ascending Aortic Diameter	
Bladder AP	Fetal Biometry	Bladder Antero-posterior	
	·	Dimension	
Bladder L	Fetal Biometry	Bladder Longitudinal Dimension	
Bladder Tr	Fetal Biometry	Bladder Transverse Dimension	
BPD	Fetal Biometry	Biparietal Diameter	
Breathing	Biophysical Profile	Fetal Breathing	
Cerebellum	Fetal Biometry	Trans Cerebellar Diameter	
Cerv Length	Pelvis and Uterus	Cervix Length	
Cist Mag	Fetal Cranium	Cisterna Magna length	
Clavicle	Fetal Long Bones	Clavicle length	
CRL	Early Gestation	Crown Rump Length	
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: End Diastolic Velocity
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Minimum Diastolic Velocity
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Peak Systolic Velocity
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Time averaged mean velocity
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Time averaged peak velocity
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Acceleration Index
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Peak Gradient
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Pulsatility Index
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Resistivity Index
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Systolic to Diastolic Velocity
		<u> </u>	Ratio
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Acceleration Time
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Deceleration Time
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Vessel lumen diameter
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Velocity Time Integral
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Heart Rate
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Mean Gradient
Desc Ao	Embryonic Vascular Structure	Descending Aorta	Result: Doppler Correction Angle
Desc Ao Diam	Fetal Heart	Descending Aortic Diameter	
Duct Art Diam (2D)	Fetal Heart	Ductus Arteriosus Diameter	
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: End Diastolic Velocity
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Minimum Diastolic Velocity
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Peak Systolic Velocity
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Time averaged mean velocity
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Time averaged peak velocity
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Acceleration Index
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Peak Gradient
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Pulsatility Index
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Resistivity Index
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Systolic to Diastolic Velocity Ratio
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Acceleration Time
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Deceleration Time
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Vessel lumen diameter
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Velocity Time Integral
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Heart Rate
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Mean Gradient
Duct Ven	Embryonic Vascular Structure	Ductus Venosus	Result: Doppler Correction Angle
Ear	Fetal Biometry	Ear length	
Fibula	Fetal Long Bones	Fibula length	
FL	Fetal Biometry	Femur Length	
Fluid Volume	Biophysical Profile	Amniotic Fluid Volume	
Foot	Fetal Biometry	Foot length	
		· · ·	•

Label	Group / Finding Site	Concept	Modifiers
FTA	Fetal Biometry	Fetal Trunk Cross Sectional	Houmers
	r etai biometry	Area	
Gest Sac	Early Gestation	Gestational Sac Diameter	
HC	Fetal Biometry	Head Circumference	
Heart Area (2D)	Fetal Biometry	Heart Area	
Heart Circ (2D)	Fetal Biometry	Heart Circumference	
Heart Rate	Fetus Summary	Fetal Heart Rate	
Humerus	Fetal Long Bones	Humerus length	
Iliac Crest	Fetal Biometry	Iliac Crest Dimension	
IOD	Fetal Cranium	Inner Orbital Diameter	
IVS (2D)	Fetal Heart	Interventricular Septum	
100 (20)		Thickness	
L Lung Diam	Fetal Biometry	Left Lung Diameter	
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Peak Systolic
LINCA		Middle Cerebral Artery	Velocity
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: End Diastolic Velocity
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Minimum Diastolic Velocity
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Time averaged mean velocity
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Time averaged peak velocity
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Acceleration Index
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Peak Gradient
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Resistivity Index
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Pulsatility Index
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Systolic to
			Diastolic Velocity Ratio
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Acceleration Time
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Deceleration Time
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Vessel lumen diameter
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Velocity Time Integral
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Heart Rate
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Mean Gradient
L MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Left, Result: Doppler Correction Angle
L Ov Height	Ovary	Left Ovary Height	
L Ov Length	Ovary	Left Ovary Length	
L Ov Width	Ovary	Left Ovary Width	
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: End Diastolic Velocity
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Minimum Diastolic Velocity
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Peak Systolic Velocity
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Time averaged mean velocity
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Time averaged peak velocity
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Acceleration Index
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Peak Gradient
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Pulsatility Index
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Resistivity Index
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Systolic to
		,	Diastolic Velocity Ratio

Label	Group / Finding Site	Concept	Modifiers
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Acceleration
		,	Time
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Deceleration
			Time
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Vessel lumen
			diameter
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Velocity Time
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Integral Laterality: Left, Result: Heart Rate
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Mean Gradient
L Uterine A	Pelvic Vascular Structure	Uterine Artery	Laterality: Left, Result: Doppler
		ocenne vicery	Correction Angle
LA Dimension	Fetal Heart	Left Atrium Dimension	
LA Length	Fetal Heart	Left Atrium Length	
LA Width	Fetal Heart	Left Atrium Width	
Lat Vent	Fetal Cranium	Lateral Ventricle width	
LLQ	Amniotic Sac	Left Lower Quadrant Diameter	
LUQ	Amniotic Sac	Left Upper Quadrant Diameter	
LV Dimension	Fetal Heart	Left Ventricle Dimension	
LV Length	Fetal Heart	Left Ventricle Length	
LV Width	Fetal Heart	Left Ventricle Width	
LVOT Diam	Fetal Heart	LV Outflow Tract Diameter	
M Phalanx 5	Fetal Biometry	Length of middle Phalanx of the	
Manadiala	Estal Discussion	5th Digit	
Mandible	Fetal Biometry	Mandible Diameter	
Movement MPA Diam (2D)	Biophysical Profile Fetal Heart	Gross Body Movement Main Pulmonary Artery	
MPA Diatti (2D)	relai neart	Diameter	
MV Annul Diam	Fetal Heart	Mitral Annulus Diameter	
Nasal	Fetal Long Bones	Nasal Bone Length	
Nuch Fold	Fetal Cranium	Nuchal Fold thickness	
Nuch Luc	Early Gestation	Nuchal Translucency	
OFD	Fetal Biometry	Occipital-Frontal Diameter	
00D	Fetal Cranium	Outer Orbital Diameter	
Orbit1	Fetal Cranium	Diameter of the First Orbit	
Orbit2	Fetal Cranium	Diameter of the Second Orbit	
Pelvis AP	Fetal Biometry	Pelvis Antero-posterior	
		Dimension	
Pelvis L	Fetal Biometry	Pelvis Longitudinal Dimension	
Pelvis Tr	Fetal Biometry	Pelvis Transverse Dimension	
Post Fossa	Fetal Biometry	Post Fossa Dimension	
R Lung Diam	Fetal Biometry	Right Lung Diameter	
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Peak Systolic Velocity
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: End Diastolic Velocity
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Minimum Diastolic Velocity
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Time averaged mean velocity
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Time averaged peak velocity
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Acceleration Index
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Peak Gradient
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Resistivity Index
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Pulsatility Index
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Systolic to Diastolic Velocity Ratio

Label	Group / Finding Site	Concept	Modifiers
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Acceleration
-			Time
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Deceleration Time
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Vessel lumen diameter
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Velocity Time Integral
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Heart Rate
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Mean Gradient
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Doppler Correction Angle
R Ov Height	Ovary	Right Ovary Height	
R Ov Length	Ovary	Right Ovary Length	
R Ov Width	Ovary	Right Ovary Width	
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Acceleration Time
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Deceleration Time
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Vessel lumen diameter
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Velocity Time Integral
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Heart Rate
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Mean Gradient
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Acceleration Time
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Deceleration Time
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Vessel lumen diameter
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Velocity Time Integral
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Heart Rate
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Mean Gradient
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Acceleration Time
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Deceleration Time
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Vessel lumen diameter
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Velocity Time Integral
R MCA	Embryonic Vascular Structure	Middle Cerebral Artery	Laterality: Right, Result: Heart Rate
RA Dimension	Fetal Heart	Right Atrium Dimension	· - · ·
RA Length	Fetal Heart	Right Atrium Length	
RA Width	Fetal Heart	Right Atrium Width	
Radius	Fetal Long Bones	Radius length	
Renal AP	Fetal Biometry	Renal Antero-posterior Dimension	
Renal L	Fetal Biometry	Renal Longitudinal Dimension	
Renal Pelvis	Fetal Biometry	Renal Pelvis Dimension	
Renal Tr	Fetal Biometry	Renal Transverse Dimension	
RLQ	Amniotic Sac	Right Lower Quadrant Diameter	
RUQ	Amniotic Sac	Right Upper Quadrant Diameter	
RV Dimension	Fetal Heart	Right Ventricle Dimension	
RV Length	Fetal Heart	Right Ventricle Length	
RV Width	Fetal Heart	Right Ventricle Width	
RVOT Diam	Fetal Heart	RV Outflow Tract Diameter	
Sac Diam1	Early Gestation	Sac Diameter 1	
	Early Gestation	Sac Diameter 2	+

Label	Group / Finding Site	Concept	Modifiers
Sac Diam3	Early Gestation	Sac Diameter 3	Modifiers
Scapula	Fetal Biometry	Scapula Dimension	
SL	Early Gestation	Spine Length	
TAD	Fetal Biometry	Transverse Abdominal	
17.0	i cui biometry	Diameter	
ТС	Fetal Biometry	Thoracic Circumference	
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: End Diastolic Velocity
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Minimum Diastolic Velocity
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Peak Systolic Velocity
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Time averaged mean velocity
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Time averaged peak velocity
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Acceleration Index
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta Result: Peak Gradient	
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Pulsatility Index
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Resistivity Index
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Systolic to Diastolic Velocity
			Ratio
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Acceleration Time
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Deceleration Time
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Vessel lumen diameter
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Velocity Time Integral
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Heart Rate
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Mean Gradient
Thoracic Ao	Embryonic Vascular Structure	Thoracic aorta	Result: Doppler Correction Angle
Tibia	Fetal Long Bones	Tibia length	
Tone Biophysical Profile		Fetal Tone	
TTD Fetal Biometry		Transverse Thoracic Diameter	
TV Annul Diam	Fetal Heart	Tricuspid Annulus Diameter	
Ulna	Fetal Long Bones	Ulna length	
Umbilical A	PelvicEmbryonic Vascular Structure	Umbilical Artery	Result: Peak SystolicEnd Diastolic Velocity
Umbilical A	PelvicEmbryonic Vascular Structure	Umbilical Artery	Result: EndMinimum Diastolic Velocity
Umbilical A	PelvicEmbryonic Vascular Structure	Umbilical Artery	Result: Time averaged peak velocityResult: Peak Systolic Velocity
Umbilical A	vilical A PelvicEmbryonic Vascular Umbilical Artery Result: Resistivity Inde		Result: Resistivity IndexResult: Time
Structure			averaged mean velocity
Umbilical A PelvicEmbryonic Vascular		Umbilical Artery	Result: Pulsatility IndexResult: Time
	Structure	,	averaged peak velocity
Umbilical A	PelvicEmbryonic Vascular Structure	Umbilical Artery	Result: Systolic to Diastolic Velocity RatioResult: Acceleration Index
Umbilical A	PelvicEmbryonic Vascular Structure	Umbilical Artery	Result: Doppler Correction AnglePeak Gradient
Umbilical A	Embryonic Vascular Structure	Umbilical Artery	Result: Pulsatility Index
Umbilical A	Embryonic Vascular Structure	Umbilical Artery	Result: Resistivity Index
Umbilical A	Embryonic Vascular Structure	Umbilical Artery	Result: Systolic to Diastolic Velocity Ratio
Umbilical A	Embryonic Vascular Structure	Umbilical Artery	Result: Acceleration Time
Umbilical A	Embryonic Vascular Structure	Umbilical Artery	Result: Deceleration Time
Umbilical A	Embryonic Vascular Structure	Umbilical Artery	Result: Vessel lumen diameter
Umbilical A	Embryonic Vascular Structure	Umbilical Artery	Result: Velocity Time Integral
Umbilical A	Embryonic Vascular Structure	Umbilical Artery	Result: Heart Rate
Umbilical A	Embryonic Vascular Structure	Umbilical Artery	Result: Mean Gradient
Umbilical A	Embryonic Vascular Structure	Umbilical Artery	Result: Doppler Correction Angle
Ureter AP Fetal Biometry		Ureter Antero-posterior	
Ureter AP	Fetal Biometry		
Ureter AP Ureter Tr	Fetal Biometry Fetal Biometry	Dimension Ureter Transverse Dimension	

# Application: OB, Calculations

	Label	Group / Finding Site	Concept	Modifiers
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Label	Group / Finding Site	Concept	Modifiers
AC(c)	Fetal Biometry	Abdominal Circumference	Derivation: Calculated
AFI	Amniotic Sac	Amniotic Fluid Index	
Ao/PA	Fetal Heart	Ratio of Aortic Root Diameter	
		to Main PA Diameter	
AUA	Fetus Summary	Composite Ultrasound Age	
BPDa	Fetal Biometry	BPD area corrected	
BPP Score	Biophysical Profile	Biophysical Profile Sum Score	
CI	Fetal Biometry Ratios	Cephalic Index	
EDD (AUA)	Summary	EDD from average ultrasound	
		age	
EDD (Con)	Summary	EDD from conception date	
EDD (LMP)	Summary	EDD from LMP	
FL/AC	Fetal Biometry Ratios	FL/AC	
FL/BPD	Fetal Biometry Ratios	FL/BPD	
GA (Con)	Fetus Summary	Gestational Age by conception	
		date	
GA (EDD)	Fetus Summary	Gestational Age by EDD	
GA (LMP)	Fetus Summary	Gestational Age by LMP	
HC(c)	Fetal Biometry	Head Circumference	Derivation: Calculated
HC/AC	Fetal Biometry Ratios	HC/AC	
HrtC/ThrC	Fetal Biometry	HrtC/TC (Heart	
		Circumference/Thoracic	
		Circumference)	
L Ov Volume	Ovary	Left Ovary Volume	
LA/Ao	Fetal Biometry	Ratio of LA Dimension to Aortic	
		Root Diameter	
LA/RA	Fetal Heart	Ratio of LA Dimension to RA	
		Dimension	
LMP (Con)	Summary	Estimated LMP by conception	
		date	
LMP (EDD)	Summary	Estimated LMP by EDD	
LV/RV	Fetal Heart	Ratio of LV Dimension to RV	
M C D		Dimension	
Mean Sac Diam	Early Gestation	Mean Sac Diameter	
R Ov Volume	Ovary	Right Ovary Volume	
TC(c)	Fetal Biometry	Thoracic Circumference	Derivation: Calculated

## Application: Gyn, Measurements

Label	Group / Finding Site	Concept	Modifiers		
Cerv Length	Pelvis and Uterus	Cervix Length			
Endo Thick	Pelvis and Uterus	Endometrium Thickness			
Foll1-10	Ovarian Follicle	Follicle Diameter	Identifier: 1-10		
L Ov Height	Ovary	Left Ovary Height			
L Ov Length	Ovary	Left Ovary Length			
L Ov Width	Ovary	Left Ovary Width			
R Ov Height	Ovary	Right Ovary Height			
R Ov Length	Ovary	Right Ovary Length			
R Ov Width	Ovary	Right Ovary Width			
Uterus Height	Pelvis and Uterus	Uterus Height			
Uterus Length	Pelvis and Uterus	Uterus Length			
Uterus Width	Pelvis and Uterus	Uterus Width			

# Application: Gyn, Calculations

Label	Group / Finding Site	Concept	Modifiers
Foll1-10 Volume	Ovarian Follicle	Volume	Identifier: 1-10
L Ov Volume	Ovary	Left Ovary Volume	
R Ov Volume	Ovary	Right Ovary Volume	
Uterus Volume	Pelvis and Uterus	Uterus Volume	

#### OB Authors Gestational Age

Meas	Author	Туре	Reference
AC	ASUM (2001)	Table of Values	AC, ASUM 2001
AC	Hadlock	Equation	AC, Hadlock 1984
AC	Hansmann	Table of Values	AC, Hansmann 1986
BPDa	Chitty (Outer Inner)	Equation	BPDa-oi, Chitty 1997
BPDa	Chitty (Outer Outer)	Equation	BPDa-oo, Chitty 1997
BPDa	Hadlock	Equation	BPDa, Hadlock 1984
BPD	ASUM (2001)	Table of Values	BPD, ASUM 2001
BPD	Chitty (Outer Inner)	Equation	BPD-oi, Chitty 1997
BPD	Chitty (Outer Outer)	Equation	BPD-00, Chitty 1997
BPD	Hadlock	Equation	BPD, Hadlock 1984
BPD		Table of Values	BPD, Hansmann 1986
BPD	Hansmann		
	Jeanty	Table of Values	BPD, Jeanty 1984
Cerebellum	Chitty	Equation	TCD, Chitty 1997
Cerebellum	Hill	Equation	TCD, Hill 1990
Clavicle	Yarkoni	Table of Values	Clavical length,Yarkoni 1985
CRL	ASUM (2001)	Table of Values	CRL, ASUM 2001
CRL	Hadlock	Equation	CRL, Hadlock 1992
CRL	Hansmann	Table of Values	CRL, Hansmann 1986
CRL	Robinson	Equation	CRL, Robinson 1975
FL	ASUM (2001)	Table of Values	FL, ASUM 2001
FL	Chitty	Equation	FL, Chitty 1997
FL	Hadlock	Equation	FL, Hadlock 1984
FL	Hansmann	Table of Values	FL, Hansmann 1986
FL	Jeanty	Equation	FL, Jeanty 1984
FTA	Osaka	Table of Values	Fetal Trunk Cross-Sectional Area, Osaka 1989
Gest Sac	Hansmann	Table of Values	GS, Hansmann 1982
Gest Sac	Nyberg	Equation	GS, Nyberg 1992
HC	ASUM (2001)	Table of Values	HC, ASUM 2001
HC	Chitty (Derived)	Equation	HC derived, Chitty 1997
HC	Chitty (Measured)	Equation	HC measured, Chitty 1997
HC	Hadlock	Equation	HC, Hadlock 1984
HC	Hansmann	Table of Values	HC, Hansmann 1986
Humerus	ASUM (2001)	Table of Values	Humerus, ASUM 2001
Humerus	Jeanty	Table of Values	Humerus, Jeanty 1984
MSD	Hellman	Equation	MSD, Hellman 1969
OFD	ASUM (2001)	Table of Values	OFD, ASUM 2001
OFD	Hansmann	Table of Values	OFD, Hansmann 1985
OOD	Jeanty	Table of Values	OOD, Jeanty 1984
SL	Tokyo	Table of Values	Spine Length, Tokyo, 1989
TAD	Hansmann	Table of Values	TAD Hansmann, 1979
TC	Nimrod	Equation	TCD, Nimrod 1986
Tibia	Jeanty	Table of Values	Tibia, Jeanty 1984
TTD	Hansmann	Table of Values	Transverse Thoracic Diameter, Hansmann 1985
Ulna	Jeanty	Table of Values	Ulna, Jeanty 1984
oniu	Jeancy		

# **Estimated Fetal Weight**

Author	Туре	Reference
Campbell	Equation	EFW by AC, Campbell 1975
Hadlock (AC,FL)	Equation	EFW by AC, FL, Hadlock 1985
Hadlock (AC,FL,HC)	Equation	EFW by AC, FL, HC, Hadlock 1985
Hadlock (AC,FL,HC,BPD)	Equation	EFW by AC, BPD, FL, HC, Hadlock 1985
Hadlock (AC,FL,BPD)	Equation	EFW by AC, BPD, FL, Hadlock 1985

## **Fetal Weight Percentile**

Note: FWP values that are out of range will not be exported when Author = Brenner or WilliamsAuthorTypeReference

Author	Туре	Reference
Philips Custom	Table of Values	FWP by MA, Philips Custom
Brenner	Table of Values	FWP by MA, Brenner 1976
Hadlock	Table of Values	FWP by MA, Hadlock 1991
Williams Male	Table of Values	FWP by MA, Williams (Male) 1982
Williams Female	Table of Values	FWP by MA, Williams (Female) 1982
Philips Custom	Table of Values	FWP by GA, Philips Custom
Brenner	Table of Values	FWP by GA, Brenner 1976
Hadlock	Table of Values	FWP by GA, Hadlock 1991
Williams Male	Table of Values	FWP by GA, Williams (Male) 1982
Williams Female	Table of Values	FWP by GA, Williams (Female) 1982

## Application: OB, Concepts

The table below represent the codes exported by the system for the preceding Measurements and Calculations listed in the tables above, sorted by Code Value (cv).

csd	cv	ст
LN	11623-6	Fourth Quadrant Diameter
LN	11624-4	First Quadrant Diameter
LN	11625-1	Third Quadrant Diameter
LN	11626-9	Second Quadrant Diameter
LN	11627-7	Amniotic Fluid Index
LN	11629-3	Outer Orbital Diameter
LN	11630-1	Amniotic Fluid Volume
LN	11631-9	Gross Body Movement
LN	11632-7	Fetal Breathing
LN	11634-3	Biophysical Profile Sum Score
LN	11635-0	Fetal Tone
LN	11727-5	Estimated Weight
LN	11732-5	EFW by AC, BPD, FL, HC, Hadlock 1985
LN	11767-1	EFW percentile rank
LN	11779-6	EDD from LMP
LN	11781-2	EDD from average ultrasound age
LN	11793-7	Follicle Diameter
LN	11816-6	Yolk Sac length
LN	11818-2	Anterior-Posterior Abdominal Diameter
LN	11820-8	Biparietal Diameter
LN	11823-2	Cephalic Index
LN	11824-0	BPD area corrected
LN	11829-9	Left Ovary Width
LN	11830-7	Right Ovary Width
LN	11840-6	Left Ovary Length
LN	11841-4	Right Ovary Length
LN	11842-2	Uterus Length
LN	11850-5	Gestational Sac Diameter
LN	11851-3	Occipital-Frontal Diameter
LN	11857-0	Left Ovary Height
LN	11858-8	Right Ovary Height
LN	11859-6	Uterus Height
	11859-0	Cisterna Magna length
LN	11862-0	Transverse Abdominal Diameter
	11863-8	Trans Cerebellar Diameter
	11864-6	Transverse Thoracic Diameter
LN	11865-3	Uterus Width
	11871-1	FL/AC
	11872-9	FL/AC FL/BPD
	11872-9	Gestational Age by LMP
	11888-5	Composite Ultrasound Age
LN	11888-5	AC, Hadlock 1984
	11892-7	BPD, Hadlock 1984
LN	11910-7	CRL, Hadlock 1992
LN	11920-6	FL, Hadlock 1984

LN         11932-1         HC, Hadlock 1984           LN         11936-2         Humeros, Jeany 1984           LN         11948-7         Fctal Hear Rate           LN         11957-8         Crown Rump Length           LN         11961-0         Cervix Length           LN         11962-8         Clavice length           LN         11962-8         Clavice length           LN         11964-4         Fibula length           LN         11965-5         Foot length           LN         11966-9         Humerus length           LN         11969-7         Radius length           LN         11969-8         Tibia length           LN         11969-7         Chadominal Circumference           LN         11969-8         Fibia length           LN         11984-2         Abdominal Circumference           LN         11984-3         Thoraic Circumference           LN         11984-5         Fibia dinkito Nary Volume           LN         12145-5         Laterol Wolman           LN         12164-7         Nuchal Fok Ubinterice           LN         13012-5         Laterol Wolman           LN         13012-5         Laterol Wolma			-
LN11947-9HC/ACIN11948-7Feal Heart RateLN11957-8Crown Rump LengthLN11952-8Clavicle lengthLN11952-8Clavicle lengthLN11953-6Femur LengthLN11954-4Fibula lengthLN11955-7Rolis lengthLN11955-7Rolis lengthLN11957-7Rolis lengthLN11957-7Rolis lengthLN11957-7Rolis lengthLN11957-3Hole northLN11959-3Ulna lengthLN11959-4Head CircumferenceLN11959-5Tiola lengthLN11959-5FoomerenceLN11959-6Endomerium ThicknessLN12145-7Nuchal Fold thicknessLN12145-7Right Ovary VolumeLN12145-7Lateral Ventricle widthLN13012-5Ascending Aortic DiameterLN13013-8Aortic Root DiameterLN1302-6Estimated LMP by EDDLN33066-2Estimated LMP by EDDLN3307-2Spine LengthLN3307-2Spine LengthLN3307-2Spine LengthLN3307-2Spine LengthLN3307-2Spine LengthLN3307-2Spine LengthLN3307-2Spine LengthLN3307-2Spine LengthLN3307-2Spine LengthLN3307-2			
IN         11949-7         Fetal Heart Rate           IN         11957-8         Crown Kump Length           IN         11952-8         Clavide length           IN         11953-6         Femur Length           IN         11954-7         Febul length           IN         11954-7         Foot length           IN         11955-1         Foot length           IN         11956-7         Radius length           IN         11959-3         Ulina length           IN         11959-3         Ulina length           IN         11959-3         Ulina length           IN         11959-3         Hong Circumference           IN         11959-3         Thoracic Circumference           IN         12145-9         Endometrium Thickness           IN         12145-7         Heigh Circumference           IN         12145-7         Heigh Circumference           IN         12145-7         Heigh Circum Yolume           IN         12145-7         Heigh Circum Yolume           IN         13012-8         Assecting Aortic Dameter           IN         18012-8         Assecting Aortic Dameter           IN         18020-8         Humonany Ar			
IN         11957-8         Crown Rump Length           IN         11952-8         Clavicle length           IN         11953-6         Femur Length           IN         11954-4         Fibula length           IN         11955-7         Foot length           IN         11956-9         Humerus length           IN         11956-7         Radius length           IN         11959-2         Abiomial Circumference           IN         11959-3         Uina length           IN         11959-3         Head Circumference           IN         11959-3         Head Circumference           IN         12145-7         Reidius david           IN         12145-7         Nuchai Podt thickness           IN         12145-7         Right Ovary Volume           IN         12145-7         Right Ovary Volume           IN         12115-7         Right Ovary Volume           IN         18013-8         Ascending Aortic Diameter           IN         18013-8         Ascending Aortic Diameter           IN         18015-8         Ascending Aortic Diameter           IN         18015-8         Ascending Aortic Diameter           IN         18020-8 <td></td> <td></td> <td>,</td>			,
IN         11961-0         Cervix Length           IN         11963-6         Femur Length           IN         11964-4         Fibula length           IN         11965-1         Foot length           IN         11967-7         Radius length           IN         11967-7         Radius length           IN         11967-7         Radius length           IN         11969-3         Ulna length           IN         11999-3         Ulna length           IN         11999-3         Ulna length           IN         11998-2         Abdominal Circumference           IN         11981-3         Thoracic Circumference           IN         12145-7         Rucht Pold thickness           IN         12164-7         Rucht Pold thickness           IN         12165-7         Right Ovary Volume           IN         18013-3         Descending Aortic Diameter           IN         18013-3         Descending Aortic Diameter           IN         18015-8         Aortic Koot Diameter           IN         18015-8         Aortic Koot Diameter           IN         33068-8         Thoracic Ares           IN         33070-4         Inmer Orb	LN		
IN         11962-8         Clavicle length           IN         11964-4         Fibula length           IN         11965-1         Foot length           IN         11965-7         Radius length           IN         11965-7         Radius length           IN         11965-8         Tibia length           IN         11968-5         Tibia length           IN         11979-2         Abdominal Circumference           IN         11988-3         Thoracic Circumference           IN         12145-7         Endometrium Thickness           IN         12145-7         Right Ovary Volume           IN         12167-7         Right Ovary Volume           IN         13013-3         Descending Aortic Diameter           IN         18013-3         Descending Aortic Diameter           IN         18012-8         Aortic Koot Diameter           IN         18015-8         Thoracic Area           IN         33069-6         Nuchal Translucency           IN         33069-0			Crown Rump Length
IN         11963-6         Femur Length           IN         11965-1         Foot length           IN         11966-9         Humerus length           IN         11965-7         Radius length           IN         11965-7         Radius length           IN         11968-3         Ulua length           IN         11969-3         Ulua length           IN         11984-3         Head Circumference           IN         11988-3         Thoracic Circumference           IN         12145-9         Endometrium Thickness           IN         12145-7         Nuchal Fold thickness           IN         12145-7         Right Ovary Volume           IN         12161-7         Right Ovary Volume           IN         12161-7         Right Ovary Volume           IN         18012-5         Ascending Aortic Diameter           IN         18013-8         Aortic Root Diameter           IN         18015-8         Aortic Root Diameter           IN         13006-2         Estimated LMP by EDD           IN         33006-2         Staineed MP by EDP           IN         33071-2         Spine Length           IN         33071-4         GS			Cervix Length
IN         11964-4         Flobal length           IN         11966-9         Humerus length           LN         11967-7         Radius length           LN         11968-5         Tibia length           LN         11969-3         Una length           LN         11979-2         Abdominal Circumference           LN         11984-2         Head Circumference           LN         11984-3         Thoracic Circumference           LN         12145-9         Endometrium Thickness           LN         12146-7         Ruchal Fold thickness           LN         12167-7         Radiu Voary Volume           LN         12167-7         Rught Ovary Volume           LN         12167-7         Rught Ovary Volume           LN         18012-8         Apric Root Diameter           LN         18013-3         Descending Apric Diameter           LN         18015-8         Apric Root Diameter           LN         18015-8         Apric Root Diameter           LN         33069-6         Nuchal Translucency           LN         33069-6         Nuchal Translucency           LN         33071-2         Spine Length           LN         33040-4 <td>LN</td> <td>11962-8</td> <td>Clavicle length</td>	LN	11962-8	Clavicle length
LN11965-1Foot lengthLN11966-7Humerus lengthLN11968-3Ulna lengthLN11969-3Ulna lengthLN11979-2Abdominal CircumferenceLN11984-2Head CircumferenceLN11984-3Thoracic CircumferenceLN11984-5Endometrium ThicknessLN12145-7Ruhometrium ThicknessLN12146-7Nuchal Fold thicknessLN12167-7Right Ovary VolumeLN12167-7Right Ovary VolumeLN13012-5Ascending Aortic DiameterLN18013-5Ascending Aortic DiameterLN18013-5Ascending Aortic DiameterLN18015-8Aortic Root DiameterLN18020-6Estimated LMP by EDDLN33066-2Estimated LMP by EDDLN33067-6Nuchal TransluencyLN33071-2Spine LengthLN33107-4GS, Nybera 1992LN33162-2AC by GA, Hadlock 1984LN33162-3DPD by GA, Hadlock 1984LN33162-4AC by GA, Hadlock 1984LN33162-5Jerb by GA, Hadlock 1984LN33192-6Uterus VolumeLN33192-6Uterus VolumeLN33192-6Uterus VolumeLN33192-6Uterus VolumeLN33192-6Uterus VolumeLN33192-6Uterus VolumeLN33192-6Uterus VolumeLN33192-6<	LN	11963-6	
LN11965-1Foot lengthLN11966-7Humerus lengthLN11968-3Ulna lengthLN11969-3Ulna lengthLN11979-2Abdominal CircumferenceLN11984-2Head CircumferenceLN11984-3Thoracic CircumferenceLN11984-5Endometrium ThicknessLN12145-7Ruhometrium ThicknessLN12146-7Nuchal Fold thicknessLN12167-7Right Ovary VolumeLN12167-7Right Ovary VolumeLN13012-5Ascending Aortic DiameterLN18013-5Ascending Aortic DiameterLN18013-5Ascending Aortic DiameterLN18015-8Aortic Root DiameterLN18020-6Estimated LMP by EDDLN33066-2Estimated LMP by EDDLN33067-6Nuchal TransluencyLN33071-2Spine LengthLN33107-4GS, Nybera 1992LN33162-2AC by GA, Hadlock 1984LN33162-3DPD by GA, Hadlock 1984LN33162-4AC by GA, Hadlock 1984LN33162-5Jerb by GA, Hadlock 1984LN33192-6Uterus VolumeLN33192-6Uterus VolumeLN33192-6Uterus VolumeLN33192-6Uterus VolumeLN33192-6Uterus VolumeLN33192-6Uterus VolumeLN33192-6Uterus VolumeLN33192-6<	LN	11964-4	Fibula length
LN         11966-9         Humerus length           LN         11968-5         Tibia length           LN         11968-5         Tibia length           LN         11972-2         Abdominal Circumference           LN         11984-2         Head Circumference           LN         11984-3         Thoracic Circumference           LN         12145-9         Endometrium Thickness           LN         12145-7         Nuchal Fold thickness           LN         12145-7         Right Ovary Volume           LN         12165-7         Right Ovary Volume           LN         12165-7         Right Ovary Volume           LN         12165-8         Acert Not Diameter           LN         18012-8         Acert Root Diameter           LN         18013-3         Descending Acric Diameter           LN         18013-8         Acert Root Diameter           LN         13066-8         Thoracic Area           LN         13069-6         Nuchal Translucency           LN         33071-2         Spine Length           LN         33071-4         Gs, Wyberg 1992           LN         33107-4         GS, Hadlock 1984           LN         33107-5 <td>LN</td> <td>11965-1</td> <td></td>	LN	11965-1	
LN         11967-7         Radius length           LN         11969-3         Ulna length           LN         11972-2         Abdominal Circumference           LN         11984-2         Head Circumference           LN         11984-2         Head Circumference           LN         12145-9         Endometrium Thickness           LN         12145-10         Left Ovary Volume           LN         12165-7         Right Ovary Volume           LN         12161-10         Left Ovary Volume           LN         12161-10         Left Ovary Volume           LN         12161-10         Left Ovary Volume           LN         18012-5         Ascending Aortic Diameter           LN         18012-5         Ascending Aortic Diameter           LN         18015-8         Aortic Root Diameter           LN         18015-8         Aortic Root Diameter           LN         33066-2         Estimated LMP by EDD           LN         33069-6         Nuchal Translucency           LN         33070-4         Inner Orbital Diameter           LN         33107-4         CS, Nyberg 1992           LN         3316-0         FL by GA, Hadlock 1984           LN	LN	11966-9	
LN         11968-5         Tibia length           LN         11979-2         Abdominal Circumference           LN         11984-2         Head Circumference           LN         11984-3         Thoracle Circumference           LN         12145-9         Endometrium Thickness           LN         12145-7         Nuchal Fold thickness           LN         12164-0         Left Ovary Volume           LN         12165-7         Right Ovary Volume           LN         12165-7         Right Ovary Volume           LN         12165-7         Right Ovary Volume           LN         18012-8         Ascending Aortic Diameter           LN         18012-8         Ascending Aortic Diameter           LN         18015-8         Aortic Root Diameter           LN         18020-8         Min Pulmonary Artery Diameter           LN         33066-2         Estimated LWP by EDD           LN         33074-4         Line Orbital Diameter           LN         33074-5         Sine Length           LN         33166-0         FL by GA, Hadlock 1984           LN         33166-0         FL by GA, Hadlock 1984           LN         33179-3         OFD by GA, Chitty 1994	LN		
LN         11959-3         Ulna length           LN         11978-2         Abdomial Circumference           LN         11988-3         Thoracic Circumference           LN         11988-3         Thoracic Circumference           LN         12145-9         Endometrium Thickness           LN         12145-7         Nuchal Fold thickness           LN         12165-7         Right Ovary Volume           LN         12157-7         Right Ovary Volume           LN         12157-7         Right Ovary Volume           LN         18012-5         Ascending Aortic Diameter           LN         18013-8         Aortic Root Diameter           LN         18015-8         Aortic Root Diameter           LN         33066-2         Estimated LMP by EDD           LN         33066-2         Estimated INP by EDD           LN         33070-4         Inner Orbital Diameter           LN         33071-2         Spine Length           LN         33160-0         FL by GA, Hadlock 1984           LN         33179-3         OFD by GA, Chitty 1994           LN         33179-3         OFD by GA, Chitty 1994           LN         33129-3         OFD by GA, Chitty 1994			
LN         11979-2         Abdominal Circumference           LN         11988-3         Thoracic Circumference           LN         11988-3         Thoracic Circumference           LN         12145-7         Findometrium Thickness           LN         12146-7         Nuchal Fold thickness           LN         12164-0         Left Ovary Volume           LN         12167-7         Right Ovary Volume           LN         12171-5         Lateral Ventricle width           LN         18013-3         Descending Aortic Diameter           LN         18015-8         Aortic Root Diameter           LN         18020-8         Main Pulmonary Artery Diameter           LN         33066-2         Estimated LMP by EDD           LN         33069-6         Nuchal Translucency           LN         33071-2         Spine Length           LN         33166-0         FL by GA, Hadlock 1984           LN         33167-2         AC by GA, Hadlock 1984           LN         33179-3         OFD by GA, Achick 1984           LN         33179-3         OFD by GA, Achick 1984           LN         33179-3         OFD by GA, Hadlock 1984           LN         33192-6         Uterus Volume<			
LN         11984-2         Head Circumference           LN         11988-3         Thoracic Circumference           LN         12145-9         Endometrium Thickness           LN         12165-7         Nuchal Fold thickness           LN         12165-7         Right Ovary Volume           LN         12165-7         Right Ovary Volume           LN         12165-7         Right Ovary Volume           LN         18012-5         Ascending Aortic Diameter           LN         18013-8         Aortic Root Diameter           LN         18015-8         Aortic Root Diameter           LN         18020-8         Main Pulmonary Artery Diameter           LN         33066-8         Thoracic Area           LN         33067-4         Inner Orbital Diameter           LN         33070-4         Inner Orbital Diameter           LN         33107-4         GS, Nyberg 1992           LN         33107-3         OFD by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33198-3         BPD by GA, Hadlock 1984           LN         33192-6         Uterus Volume <td></td> <td></td> <td></td>			
LN         11988-3         Thoracic Circumference           LN         12146-9         Endometrum Thickness           LN         12164-0         Left Ovary Volume           LN         12164-0         Left Ovary Volume           LN         12167-7         Right Ovary Volume           LN         12167-7         Right Ovary Volume           LN         12167-7         Right Ovary Volume           LN         18013-3         Descending Aortic Diameter           LN         18013-3         Descending Aortic Diameter           LN         18015-8         Aortic Root Diameter           LN         33066-2         Estimated LMP by EDD           LN         33069-6         Nuchal Translucency           LN         33071-2         Spine Length           LN         33071-2         Spine Length           LN         33172-6         HC by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33179-6         HC by GA, Hadlock 1984 <tr< td=""><td></td><td></td><td></td></tr<>			
IN         12145-9         Endometrium Thickness           LN         12146-7         Nuchal Fold thickness           LN         12164-7         Nuchal Fold thickness           LN         12165-7         Right Ovary Volume           LN         12171-5         Lateral Ventricle witht           LN         18012-5         Ascending Aortic Diameter           LN         18015-8         Aortic Root Diameter           LN         18020-8         Main Pulmonary Artery Diameter           LN         33066-2         Estimated LMP by EDD           LN         33066-6         Nuchal Translucency           LN         33070-4         Inner Orbital Diameter           LN         33071-4         GS. Nyberg 1992           LN         33107-4         GS. Nyberg 1992           LN         33146-2         AC by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33198-3         BPD by JGA, Chity 1994           LN         33192-6         UED from conception date           99PMSBLUS         C12003-01         ED from conception date           99PMSBLUS         C12003-02         <			
IN         12146-7         Nuchal Fold thickness           LN         12164-0         Left Ovary Volume           LN         12165-7         Right Ovary Volume           LN         1217-5         Lateral Ventricle width           LN         18013-3         Descending Aortic Diameter           LN         18015-8         Aortic Root Diameter           LN         18020-8         Main Pulmonary Artery Diameter           LN         33066-2         Estimated LMP by EDD           LN         33069-6         Nuchal Translucency           LN         3307-4         Inner Orbital Diameter           LN         3307-2         Spine Length           LN         3307-2         Spine Length           LN         33107-4         GS, Nyberg 1992           LN         33166-0         FL by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33179-3         OFD by GA, Chitty 1994           LN         33198-3         BPD by GA, Chitty 1984           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33193-1         DFD from conception date			
LN         12164-0         Left Ovary Volume           LN         12171-5         Lateral Ventricle width           LN         18012-5         Ascending Aortic Diameter           LN         18013-3         Descending Aortic Diameter           LN         18015-8         Aortic Root Diameter           LN         18020-8         Main Pulmonary Artery Diameter           LN         33066-2         Estimated LMP by EDD           LN         33066-6         Nuchal Translucency           LN         33070-4         Inner Orbital Diameter           LN         3307-4         GS, Nyberg 1992           LN         33107-4         GS, Nyberg 1992           LN         33146-2         AC by GA, Hadlock 1984           LN         33179-6         HC by GA, Hadlock 1984           LN         33179-6         Ucrus Volume           LN         33192-6         Uterus Volume           LN         33192-6         Ucrus Volume           LN         33192-6         Ucrus Volume           LN			
IN         12165-7         Right Ovary Volume           LN         12171-5         Lateral Ventricle width           LN         18012-5         Ascending Aortic Diameter           LN         18013-3         Descending Aortic Diameter           LN         18015-8         Aortic Root Diameter           LN         18020-8         Main Pulmonary Artery Diameter           LN         33068-6         Thoracic Area           LN         33069-6         Nuchal Translucency           LN         33074-4         Inner Orbital Diameter           LN         33074-4         Spine Length           LN         33074-4         Spine Length           LN         33146-2         AC by GA, Hadlock 1984           LN         33146-2         AC by GA, Hadlock 1984           LN         33179-3         OFD by GA, Hadlock 1984           LN         33179-3         OFD by GA, Hadlock 1984           LN         33192-6         Uterus Volume           LN			
LN         12171-5         Lateral Ventricle width           LN         18012-5         Ascending Aortic Diameter           LN         18013-3         Descending Aortic Diameter           LN         18020-8         Main Pulmonary Artery Diameter           LN         33069-6         Nuchal Translucency           LN         33069-6         Nuchal Translucency           LN         33070-4         Inner Orbital Diameter           LN         33071-2         Spine Length           LN         33107-4         GS, Nyberg 1992           LN         33107-4         GS, Nyberg 1992           LN         33106-0         FL by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33192-3         OPD by GA, Chitty 1994           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           SympMSBLUS         C12003-01         Estimated LMP by conception date           99PMSBLUS         C12003-02         Estimated MP by Conception date           99PMSBLUS         C12005-03			
LN         18012-5         Ascending Aortic Diameter           LN         18013-3         Descending Aortic Diameter           LN         18015-8         Aortic Root Diameter           LN         18020-8         Main Pulmonary Artery Diameter           LN         33068-2         Estimated LMP by EDD           LN         33069-6         Nuchal Translucency           LN         33070-4         Inner Orbital Diameter           LN         33071-2         Spine Length           LN         33107-4         GS, Nyberg 1992           LN         33167-2         AC by GA, Hadlock 1984           LN         33166-0         FL by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33179-3         OFD by GA, Chitty 1994           LN         33198-3         BPD by GA Hadlock 1984           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33544-8         OFD, Hansmann 1985           99PMSBLUS         C12003-02         Estimated LMP by conception date           99PMSBLUS         C12005-01         Har length           99PMSBLUS         C12005-02         Fetal Tr			
LN         18013-3         Descending Apric Diameter           LN         18015-8         Apric Root Diameter           LN         18020-8         Main Pulmonary Artery Diameter           LN         33066-2         Estimated LMP by EDD           LN         33069-6         Nuchal Translucency           LN         33070-4         Inner Orbital Diameter           LN         33071-2         Spine Length           LN         33107-4         GS, Nyberg 1992           LN         33166-0         FL by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33173-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           SC203-02         Estimated LMP by conception date           99PMSBLUS         C12003-01         Hart Circumference/Thoracic Circumference)           99PMSBLUS         C12005-01         Ear length           99PMSBLUS         C12005-02         Fetal Trunk Cross Sectiona			
IN         18015-8         Aortic Root Diameter           LN         18020-8         Main Pulmonary Artery Diameter           LN         33066-2         Estimated LMP by EDD           LN         33069-6         Nuchal Translucency           LN         33070-4         Inner Orbital Diameter           LN         33071-2         Spine Length           LN         33071-4         GS, Nyberg 1992           LN         33174-6         GS, Nyberg 1992           LN         33173-6         HC by GA, Hadlock 1984           LN         33183-3         BPD by GA, Chitty 1994           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           SC         C12003-01         ED from conception date           99PMSBLUS         C12003-02         Estimated LMP by conception date           99PMSBLUS         C12005-03         Heart Circumference/Thoracic C			
LN         18020-8         Main Pulmonary Artery Diameter           LN         33066-2         Estimated LMP by FDD           LN         33068-8         Thoracic Area           LN         33069-6         Nuchal Translucency           LN         33071-2         Spine Length           LN         33071-2         Spine Length           LN         33107-4         GS, Myberg 1992           LN         33166-0         FL by GA, Hadlock 1984           LN         33166-0         FL by GA, Hadlock 1984           LN         33179-3         OFD by GA, Chitty 1994           LN         33198-3         BPD by GA, Hadlock 1984           LN         33198-3         BPD by GA, Chitty 1994           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33192-3         BPD by GA, Hadlock 1984           SUN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           SUN         C12003-01         EDI from conception date           99PMSBLUS         C12003-02         Fetal Trunk Cross Sectional Area			
LN         33066-2         Estimated LMP by EDD           LN         33068-8         Thoracic Area           LN         33069-6         Nuchal Translucency           LN         33070-4         Inner Orbital Diameter           LN         33071-2         Spine Length           LN         33071-2         Spine Length           LN         33107-4         GS, Nyberg 1992           LN         33146-2         AC by GA, Hadlock 1984           LN         3317-6         HC by GA, Hadlock 1984           LN         3317-6         HC by GA, Hadlock 1984           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33544-8         OFD, Hansmann 1985           99PMSBLUS         C12003-01         Ebi mated LMP by conception date           99PMSBLUS         C12003-01         Ear length           99PMSBLUS         C12005-02         Fetal Trunk Cross Sectional Area           99PMSBLUS         C12005-03         Heart Circumference           99PMSBLUS         C12005-04         Length of middle Phalax of the 5th			
LN         33068-8         Thoracic Area           LN         33079-4         Nuchal Translucency           LN         33070-4         Inner Orbital Diameter           LN         33071-2         Spine Length           LN         33107-4         GS, Nyberg 1992           LN         3316-0         FL by GA, Hadlock 1984           LN         33179-3         OFD by GA, Chitty 1994           LN         33198-3         BPD by GA, Chitty 1994           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33544-8         OFD, Hansmann 1985           99PMSBLUS         C12003-01         EDD from conception date           99PMSBLUS         C12003-02         Estimated LMP by conception date           99PMSBLUS         C12005-03         Heart Circumference/Thoracic Circumference           99PMSBLUS         C12005-04         Length of middle Phalanx of the 5th Digit           99PMSBLUS         C12005-08         Transverse Trunk Diameter			
LN         33069-6         Nuchal Translucency           LN         33070-4         Inner Orbital Diameter           LN         33071-2         Spine Length           LN         33107-4         GS, Nyberg 1992           LN         33146-2         AC by GA, Hadlock 1984           LN         33166-0         FL by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33179-3         OFD by GA, Chitty 1994           LN         33198-3         BPD by GA, Hadlock 1984           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33544-8         OFD, Hansmann 1985           99PMSBLUS         C12003-01         EbD from conception date           99PMSBLUS         C12003-01         Ear length           99PMSBLUS         C12005-01         Fetal Trunk Cross Sectional Area           99PMSBLUS         C12005-02         Fetal Trunk Cross Sectional Area           99PMSBLUS         C12005-03         Heart Circumference           99PMSBLUS         C12005-04         Length of middle Phalanx of the 5th Digit           99PMSBLUS         C12005-05         Right Lung Diameter           99			
LN         33070-4         Inner Orbital Diameter           LN         33071-2         Spine Length           LN         33107-4         GS, Nyberg 1992           LN         33146-2         AC by GA, Hadlock 1984           LN         33166-0         FL by GA, Hadlock 1984           LN         33179-3         OFD by GA, Chitty 1994           LN         33179-3         OFD by GA, Chitty 1994           LN         33198-3         BPD by GA, Hadlock 1984           LN         33198-3         BPD by GA, Hadlock 1984           LN         33194-6         Uterus Volume           LN         33544-8         OFD, Hansmann 1985           99PMSBLUS         C12003-01         EDD from conception date           99PMSBLUS         C12003-02         Estimated LMP by conception date           99PMSBLUS         C12005-01         Ear length           99PMSBLUS         C12005-02         Fetal Trunk Cross Sectional Area           99PMSBLUS         C12005-03         Heart Circumference           99PMSBLUS         C12005-04         Length of middle Phalanx of the 5th Digit           99PMSBLUS         C12005-07         Anterior-Posterior Thoracic Diameter           99PMSBLUS         C12005-23         Mandible Diameter			
LN         33071-2         Spine Length           LN         33107-4         GS, Nyberg 1992           LN         33146-2         AC by GA, Hadlock 1984           LN         33166-0         FL by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33179-3         OFD by GA, Chitty 1994           LN         33198-3         BPD by GA, Hadlock 1984           LN         33192-6         Uterus Volume           LN         33544-8         OFD, Hansmann 1985           99PMSBLUS         C12003-01         EDD from conception date           99PMSBLUS         C12003-02         Estimated LMP by conception date           99PMSBLUS         C12005-02         Fetal Trunk Cross Sectional Area           99PMSBLUS         C12005-03         Heart Circumference           99PMSBLUS         C12005-04         Length of middle Phalanx of the 5th Digit           99PMSBLUS         C12005-07         Anterior-Posterior Thoracic Diameter           99PMSBLUS         C12005-08         Transverse Trunk Diameter           99PMSBLUS         C12005-22         Right Lung Diameter           99PMSBLUS         C12005-24         Left Lung Diameter           99PMSBLUS         C12005-27         <			
LN         33107-4         GS, Nyberg 1992           LN         33146-2         AC by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33173-6         HC by GA, Chitty 1994           LN         33173-3         OFD by GA, Chitty 1994           LN         33192-3         BPD by GA, Chitty 1994           LN         33192-6         Uterus Volume           LN         33544-8         OFD, Hansmann 1985           99PMSBLUS         C12003-02         Estimated LMP by conception date           99PMSBLUS         C12003-02         Estimated LMP by conception date           99PMSBLUS         C12005-01         Ear length           99PMSBLUS         C12005-02         Fetal Trunk Cross Sectional Area           99PMSBLUS         C12005-03         Heart Circumference           99PMSBLUS         C12005-04         Length of middle Phalanx of the 5th Digit           99PMSBLUS         C12005-07         Anterior-Posterior Thoracic Diameter           99PMSBLUS         C12005-08         Transverse Trunk Diameter           99PMSBLUS         C12005-23         Mandible Diameter           99PMSBLUS         C12005-24         Left Lung Diameter           99PMSBLUS         C12005-25 <td></td> <td></td> <td></td>			
LN         33146-2         AC by GA, Hadlock 1984           LN         33166-0         FL by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33179-3         OFD by GA, Chitty 1994           LN         33198-3         BPD by GA, Hadlock 1984           LN         33192-6         Uterus Volume           LN         33544-8         OFD, Hansmann 1985           99PMSBLUS         C12003-01         EDD from conception date           99PMSBLUS         C12003-02         Estimated LMP by conception date           99PMSBLUS         C12005-01         Ear length           99PMSBLUS         C12005-02         Fetal Trunk Cross Sectional Area           99PMSBLUS         C12005-03         Heart Circumference           99PMSBLUS         C12005-04         Length of middle Phalanx of the 5th Digit           99PMSBLUS         C12005-07         Anterior-Posterior Thoracic Diameter           99PMSBLUS         C12005-08         Transverse Trunk Diameter           99PMSBLUS         C12005-09         Heart Area           99PMSBLUS         C12005-26         Right Lung Diameter           99PMSBLUS         C12005-27         Right Lung Diameter           99PMSBLUS         C12005-27 <td></td> <td></td> <td></td>			
LN         33166-0         FL by GA, Hadlock 1984           LN         33173-6         HC by GA, Hadlock 1984           LN         33179-3         OFD by GA, Chitty 1994           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33192-6         Uterus Volume           LN         33544-8         OFD, Hansmann 1985           99PMSBLUS         C12003-01         EDD from conception date           99PMSBLUS         C12003-02         Estimated LMP by conception date           99PMSBLUS         C12005-01         Hart Circumference/Thoracic Circumference)           99PMSBLUS         C12005-02         Fetal Trunk Cross Sectional Area           99PMSBLUS         C12005-03         Heart Circumference           99PMSBLUS         C12005-04         Length of middle Phalanx of the 5th Digit           99PMSBLUS         C12005-07         Anterior-Posterior Thoracic Diameter           99PMSBLUS         C12005-08         Transverse Trunk Diameter           99PMSBLUS         C12005-23         Mandible Diameter           99PMSBLUS         C12005-25         Right Lung Diameter           99PMSBLUS         C12005-26         Post Fossa Dimension           99PMSBLUS			
LN33173-6HC by GA, Hadlock 1984LN33179-3OFD by GA, Chitty 1994LN33198-3BPD by GA, Hadlock 1984LN33192-6Uterus VolumeLN33544-8OFD, Hansmann 198599PMSBLUSC12003-01EDD from conception date99PMSBLUSC12003-02Estimated LMP by conception date99PMSBLUSC12005-01Ear length99PMSBLUSC12005-02Fetal Trunk Cross Sectional Area99PMSBLUSC12005-03Heart Circumference99PMSBLUSC12005-04Length of middle Phalanx of the 5th Digit99PMSBLUSC12005-07Anterior-Posterior Thoracic Diameter99PMSBLUSC12005-08Transverse Trunk Diameter99PMSBLUSC12005-23Mandible Diameter99PMSBLUSC12005-24Left Lung Diameter99PMSBLUSC12005-25Right Lung Diameter99PMSBLUSC12005-26Post Fossa Dimension99PMSBLUSC12005-27Scapula Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-02Diameter of the Second Orbit99PMSBLUSC12009-01Sac Diameter 399PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter	LN	33146-2	
LN33179-3OFD by GA, Chitty 1994LN33198-3BPD by GA, Hadlock 1984LN33192-6Uterus VolumeLN33544-8OFD, Hansmann 198599PMSBLUSC12003-01EDD from conception date99PMSBLUSC12004-01HrtC/TC (Heart Circumference/Thoracic Circumference)99PMSBLUSC12005-01Ear length99PMSBLUSC12005-02Fetal Trunk Cross Sectional Area99PMSBLUSC12005-03Heart Circumference99PMSBLUSC12005-04Length of middle Phalanx of the 5th Digit99PMSBLUSC12005-07Anterior-Posterior Thoracic Diameter99PMSBLUSC12005-08Transverse Trunk Diameter99PMSBLUSC12005-23Mandible Diameter99PMSBLUSC12005-24Left Lung Diameter99PMSBLUSC12005-25Right Lung Diameter99PMSBLUSC12005-26Post Fossa Dimension99PMSBLUSC12005-27Scapula Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-02Diameter 199PMSBLUSC12009-03Sac Diameter 199PMSBLUSC12009-04Mean Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter	LN	33166-0	FL by GA, Hadlock 1984
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LN33544-8OFD, Hansmann 198599PMSBLUSC12003-01EDD from conception date99PMSBLUSC12003-02Estimated LMP by conception date99PMSBLUSC12004-01HrtC/TC (Heart Circumference/Thoracic Circumference)99PMSBLUSC12005-01Ear length99PMSBLUSC12005-02Fetal Trunk Cross Sectional Area99PMSBLUSC12005-03Heart Circumference99PMSBLUSC12005-04Length of middle Phalanx of the 5th Digit99PMSBLUSC12005-07Anterior-Posterior Thoracic Diameter99PMSBLUSC12005-08Transverse Trunk Diameter99PMSBLUSC12005-23Mandible Diameter99PMSBLUSC12005-24Left Lung Diameter99PMSBLUSC12005-25Right Lung Diameter99PMSBLUSC12005-26Post Fossa Dimension99PMSBLUSC12005-27Scapula Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-01Diameter of the Second Orbit99PMSBLUSC12009-01Sac Diameter 199PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter 3	LN	33198-3	BPD by GA, Hadlock 1984
99PMSBLUSC12003-01EDD from conception date99PMSBLUSC12003-02Estimated LMP by conception date99PMSBLUSC12005-01HrtC/TC (Heart Circumference/Thoracic Circumference)99PMSBLUSC12005-01Ear length99PMSBLUSC12005-02Fetal Trunk Cross Sectional Area99PMSBLUSC12005-03Heart Circumference99PMSBLUSC12005-04Length of middle Phalanx of the 5th Digit99PMSBLUSC12005-07Anterior-Posterior Thoracic Diameter99PMSBLUSC12005-08Transverse Trunk Diameter99PMSBLUSC12005-09Heart Area99PMSBLUSC12005-23Mandible Diameter99PMSBLUSC12005-24Left Lung Diameter99PMSBLUSC12005-25Right Lung Diameter99PMSBLUSC12005-26Post Fossa Dimension99PMSBLUSC12005-27Scapula Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-01Diameter of the Second Orbit99PMSBLUSC12007-02Diameter 199PMSBLUSC12009-01Sac Diameter 299PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter 399PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter	LN	33192-6	
99PMSBLUSC12003-02Estimated LMP by conception date99PMSBLUSC12004-01HrtC/TC (Heart Circumference/Thoracic Circumference)99PMSBLUSC12005-01Ear length99PMSBLUSC12005-02Fetal Trunk Cross Sectional Area99PMSBLUSC12005-03Heart Circumference99PMSBLUSC12005-04Length of middle Phalanx of the 5th Digit99PMSBLUSC12005-07Anterior-Posterior Thoracic Diameter99PMSBLUSC12005-08Transverse Trunk Diameter99PMSBLUSC12005-23Mandible Diameter99PMSBLUSC12005-24Left Lung Diameter99PMSBLUSC12005-25Right Lung Diameter99PMSBLUSC12005-26Post Fossa Dimension99PMSBLUSC12005-27Scapula Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-01Diameter of the Second Orbit99PMSBLUSC12007-02Sac Diameter 199PMSBLUSC12009-03Sac Diameter 299PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter		33544-8	OFD, Hansmann 1985
99PMSBLUSC12004-01HrtC/TC (Heart Circumference/Thoracic Circumference)99PMSBLUSC12005-01Ear length99PMSBLUSC12005-02Fetal Trunk Cross Sectional Area99PMSBLUSC12005-03Heart Circumference99PMSBLUSC12005-04Length of middle Phalanx of the 5th Digit99PMSBLUSC12005-07Anterior-Posterior Thoracic Diameter99PMSBLUSC12005-08Transverse Trunk Diameter99PMSBLUSC12005-09Heart Area99PMSBLUSC12005-23Mandible Diameter99PMSBLUSC12005-24Left Lung Diameter99PMSBLUSC12005-26Post Fossa Dimension99PMSBLUSC12005-27Scapula Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-01Diameter of the Second Orbit99PMSBLUSC12007-02Sac Diameter 199PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter	99PMSBLUS	C12003-01	EDD from conception date
99PMSBLUSC12005-01Ear length99PMSBLUSC12005-02Fetal Trunk Cross Sectional Area99PMSBLUSC12005-03Heart Circumference99PMSBLUSC12005-04Length of middle Phalanx of the 5th Digit99PMSBLUSC12005-07Anterior-Posterior Thoracic Diameter99PMSBLUSC12005-08Transverse Trunk Diameter99PMSBLUSC12005-23Mandible Diameter99PMSBLUSC12005-24Left Lung Diameter99PMSBLUSC12005-25Right Lung Diameter99PMSBLUSC12005-26Post Fossa Dimension99PMSBLUSC12005-27Scapula Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-01Diameter of the Second Orbit99PMSBLUSC12007-02Diameter of the Second Orbit99PMSBLUSC12009-01Sac Diameter 199PMSBLUSC12009-02Sac Diameter 299PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter 3	99PMSBLUS	C12003-02	Estimated LMP by conception date
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99PMSBLUSC12005-02Fetal Trunk Cross Sectional Area99PMSBLUSC12005-03Heart Circumference99PMSBLUSC12005-04Length of middle Phalanx of the 5th Digit99PMSBLUSC12005-07Anterior-Posterior Thoracic Diameter99PMSBLUSC12005-08Transverse Trunk Diameter99PMSBLUSC12005-09Heart Area99PMSBLUSC12005-23Mandible Diameter99PMSBLUSC12005-24Left Lung Diameter99PMSBLUSC12005-25Right Lung Diameter99PMSBLUSC12005-26Post Fossa Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12007-01Nasal Bone Length99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12009-01Sac Diameter 199PMSBLUSC12009-01Sac Diameter 199PMSBLUSC12009-02Sac Diameter 199PMSBLUSC12009-04Mean Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter 3	99PMSBLUS	C12005-01	Ear length
99PMSBLUSC12005-03Heart Circumference99PMSBLUSC12005-04Length of middle Phalanx of the 5th Digit99PMSBLUSC12005-07Anterior-Posterior Thoracic Diameter99PMSBLUSC12005-08Transverse Trunk Diameter99PMSBLUSC12005-09Heart Area99PMSBLUSC12005-23Mandible Diameter99PMSBLUSC12005-24Left Lung Diameter99PMSBLUSC12005-25Right Lung Diameter99PMSBLUSC12005-26Post Fossa Dimension99PMSBLUSC12005-27Scapula Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-01Diameter of the Second Orbit99PMSBLUSC12009-01Sac Diameter 199PMSBLUSC12009-02Sac Diameter 199PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter 3	99PMSBLUS		
99PMSBLUSC12005-04Length of middle Phalanx of the 5th Digit99PMSBLUSC12005-07Anterior-Posterior Thoracic Diameter99PMSBLUSC12005-08Transverse Trunk Diameter99PMSBLUSC12005-09Heart Area99PMSBLUSC12005-23Mandible Diameter99PMSBLUSC12005-24Left Lung Diameter99PMSBLUSC12005-25Right Lung Diameter99PMSBLUSC12005-26Post Fossa Dimension99PMSBLUSC12005-27Scapula Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-02Diameter of the Second Orbit99PMSBLUSC12009-01Sac Diameter 199PMSBLUSC12009-02Sac Diameter 199PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter 3			
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99PMSBLUSC12005-23Mandible Diameter99PMSBLUSC12005-24Left Lung Diameter99PMSBLUSC12005-25Right Lung Diameter99PMSBLUSC12005-26Post Fossa Dimension99PMSBLUSC12005-27Scapula Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12006-01Nasal Bone Length99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-02Diameter of the Second Orbit99PMSBLUSC12009-01Sac Diameter 199PMSBLUSC12009-02Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter			
99PMSBLUSC12005-24Left Lung Diameter99PMSBLUSC12005-25Right Lung Diameter99PMSBLUSC12005-26Post Fossa Dimension99PMSBLUSC12005-27Scapula Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12006-01Nasal Bone Length99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-02Diameter of the Second Orbit99PMSBLUSC12009-01Sac Diameter 199PMSBLUSC12009-02Sac Diameter 299PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter			
99PMSBLUSC12005-25Right Lung Diameter99PMSBLUSC12005-26Post Fossa Dimension99PMSBLUSC12005-27Scapula Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12006-01Nasal Bone Length99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-02Diameter of the Second Orbit99PMSBLUSC12009-01Sac Diameter 199PMSBLUSC12009-02Sac Diameter 299PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter			
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99PMSBLUSC12005-27Scapula Dimension99PMSBLUSC12005-28Iliac Crest Dimension99PMSBLUSC12006-01Nasal Bone Length99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-02Diameter of the Second Orbit99PMSBLUSC12009-01Sac Diameter 199PMSBLUSC12009-02Sac Diameter 299PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter			
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99PMSBLUSC12007-01Diameter of the First Orbit99PMSBLUSC12007-02Diameter of the Second Orbit99PMSBLUSC12009-01Sac Diameter 199PMSBLUSC12009-02Sac Diameter 299PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter			
99PMSBLUSC12007-02Diameter of the Second Orbit99PMSBLUSC12009-01Sac Diameter 199PMSBLUSC12009-02Sac Diameter 299PMSBLUSC12009-03Sac Diameter 399PMSBLUSC12009-04Mean Sac Diameter			
99PMSBLUS         C12009-01         Sac Diameter 1           99PMSBLUS         C12009-02         Sac Diameter 2           99PMSBLUS         C12009-03         Sac Diameter 3           99PMSBLUS         C12009-04         Mean Sac Diameter			
99PMSBLUS         C12009-02         Sac Diameter 2           99PMSBLUS         C12009-03         Sac Diameter 3           99PMSBLUS         C12009-04         Mean Sac Diameter			
99PMSBLUS         C12009-03         Sac Diameter 3           99PMSBLUS         C12009-04         Mean Sac Diameter			
99PMSBLUS C12009-04 Mean Sac Diameter			
99PMSBLUS   C12011-01   Bladder Length			
	<b>AAHM2RFD2</b>	LIZUII-01	j blauuer Length

OODMCRUUC	C12011 02	Pladder Width
99PMSBLUS 99PMSBLUS	C12011-02 C12011-03	Bladder Width Bladder Height
99PMSBLUS 99PMSBLUS	C12011-03	Bladder Volume
99PMSBLUS	C12011-04	Post Void Bladder Length
99PMSBLUS 99PMSBLUS	C12011-05	
99PMSBLUS 99PMSBLUS		Post Void Bladder Width
	C12011-07 C12011-08	Post Void Bladder Height
99PMSBLUS		Post Void Bladder Volume
99PMSBLUS	C12011-09	Renal Longitudinal Dimension
99PMSBLUS	C12011-10	Renal Antero-posterior Dimension
99PMSBLUS	C12011-11	Renal Transverse Dimension
99PMSBLUS	C12011-12	Renal Pelvis Dimension
99PMSBLUS	C12011-13	Pelvis Longitudinal Dimension
99PMSBLUS	C12011-14	Pelvis Antero-posterior Dimension
99PMSBLUS	C12011-15	Pelvis Transverse Dimension
99PMSBLUS	C12011-16	Ureter Antero-posterior Dimension
99PMSBLUS	C12011-17	Ureter Transverse Dimension
99PMSBLUS	C12011-18	Bladder Longitudinal Dimension
99PMSBLUS	C12011-19	Bladder Antero-posterior Dimension
99PMSBLUS	C12011-20	Bladder Transverse Dimension
99PMSBLUS	C12011-21	Adrenal Gland Longitudinal Dimension
99PMSBLUS	C12011-22	Adrenal Gland Antero-posterior Dimension
99PMSBLUS	C12011-23	Adrenal Gland Transverse Dimension
99PMSBLUS	C12013-12	OOD, Jeanty 1984
99PMSBLUS	C12013-14	BPDa, Hadlock 1984
99PMSBLUS	C12013-15	TCD, Chitty 1997
99PMSBLUS	C12016-08	FWP by MA, Hadlock 1991
99PMSBLUS	C12019-02	Gestational Age by conception date
99PMSBLUS	C12019-03	Gestational Age by EDD
99PMSBLUS	C12141-01	Ductus Venosus
SRT	G-D705	Volume
99PMSBLUS	P5000-01-01	Right Ventricle Dimension
99PMSBLUS	P5000-01-02	Right Atrium Dimension
99PMSBLUS	P5000-01-03	RV Outflow Tract Diameter
99PMSBLUS	P5000-01-04	Left Ventricle Dimension
99PMSBLUS	P5000-01-05	Left Atrium Dimension
99PMSBLUS	P5000-01-06	LV Outflow Tract Diameter
99PMSBLUS	P5000-01-08	Interventricular Septum Thickness
99PMSBLUS	P5000-01-09	Ratio of LV Dimension to RV Dimension
99PMSBLUS	P5000-01-10	Ratio of LA Dimension to RA Dimension
99PMSBLUS	P5000-01-11	Ratio of Aortic Root Diameter to Main PA Diameter
99PMSBLUS	P5000-01-12	Ratio of LA Dimension to Aortic Root Diameter
99PMSBLUS	P5000-01-13	Left Atrium Length
99PMSBLUS	P5000-01-14	Left Atrium Width
99PMSBLUS	P5000-01-15	Right Atrium Length
99PMSBLUS	P5000-01-16	Right Atrium Width
99PMSBLUS	P5000-01-17	Left Ventricle Length
99PMSBLUS		
99PMSBLUS	P5000-01-18	I left Ventricle Width
	P5000-01-18 P5000-01-19	Left Ventricle Width Right Ventricle Length
	P5000-01-19	Right Ventricle Length
99PMSBLUS	P5000-01-19 P5000-01-20	Right Ventricle Length Right Ventricle Width
99PMSBLUS 99PMSBLUS	P5000-01-19 P5000-01-20 P5000-01-21	Right Ventricle Length         Right Ventricle Width         Aortic Annulus Diameter
99PMSBLUS 99PMSBLUS 99PMSBLUS	P5000-01-19 P5000-01-20 P5000-01-21 P5000-01-22	Right Ventricle Length         Right Ventricle Width         Aortic Annulus Diameter         Mitral Annulus Diameter
99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS	P5000-01-19 P5000-01-20 P5000-01-21 P5000-01-22 P5000-01-23	Right Ventricle Length         Right Ventricle Width         Aortic Annulus Diameter         Mitral Annulus Diameter         Tricuspid Annulus Diameter
99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS	P5000-01-19 P5000-01-20 P5000-01-21 P5000-01-22 P5000-01-23 P5000-01-24	Right Ventricle Length         Right Ventricle Width         Aortic Annulus Diameter         Mitral Annulus Diameter         Tricuspid Annulus Diameter         Ductus Arteriosus Diameter
99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS SRT	P5000-01-19 P5000-01-20 P5000-01-21 P5000-01-22 P5000-01-23 P5000-01-24 T-42000	Right Ventricle Length         Right Ventricle Width         Aortic Annulus Diameter         Mitral Annulus Diameter         Tricuspid Annulus Diameter         Ductus Arteriosus Diameter         Aorta
99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS SRT SNM3	P5000-01-19 P5000-01-20 P5000-01-21 P5000-01-22 P5000-01-23 P5000-01-24 T-42000 T-42070	Right Ventricle Length         Right Ventricle Width         Aortic Annulus Diameter         Mitral Annulus Diameter         Tricuspid Annulus Diameter         Ductus Arteriosus Diameter         Aorta         Thoracic aorta
99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS SRT SNM3 SRT	P5000-01-19 P5000-01-20 P5000-01-21 P5000-01-22 P5000-01-23 P5000-01-24 T-42000 T-42070 T-45600	Right Ventricle Length         Right Ventricle Width         Aortic Annulus Diameter         Mitral Annulus Diameter         Tricuspid Annulus Diameter         Ductus Arteriosus Diameter         Aorta         Thoracic aorta         Middle Cerebral Artery
99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS SRT SNM3 SRT SRT	P5000-01-19 P5000-01-20 P5000-01-21 P5000-01-22 P5000-01-23 P5000-01-24 T-42000 T-42070 T-45600 T-46820	Right Ventricle Length         Right Ventricle Width         Aortic Annulus Diameter         Mitral Annulus Diameter         Tricuspid Annulus Diameter         Ductus Arteriosus Diameter         Aorta         Thoracic aorta         Middle Cerebral Artery         Uterine Artery
99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS SRT SNM3 SRT SRT SRT SRT	P5000-01-19 P5000-01-20 P5000-01-21 P5000-01-22 P5000-01-23 P5000-01-24 T-42000 T-42070 T-45600 T-46820 T-D0765	Right Ventricle Length         Right Ventricle Width         Aortic Annulus Diameter         Mitral Annulus Diameter         Tricuspid Annulus Diameter         Ductus Arteriosus Diameter         Aorta         Thoracic aorta         Middle Cerebral Artery         Uterine Artery         Descending Aorta
99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS SRT SRT SRT SRT SRT SRT SRT SRT	P5000-01-19 P5000-01-20 P5000-01-21 P5000-01-22 P5000-01-23 P5000-01-24 T-42000 T-42070 T-45600 T-46820 T-D0765 T-F1810	Right Ventricle Length         Right Ventricle Width         Aortic Annulus Diameter         Mitral Annulus Diameter         Tricuspid Annulus Diameter         Ductus Arteriosus Diameter         Aorta         Thoracic aorta         Middle Cerebral Artery         Uterine Artery         Descending Aorta         Umbilical Artery
99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS SRT SRT SRT SRT SRT SRT SRT SRT DCM	P5000-01-19 P5000-01-20 P5000-01-21 P5000-01-22 P5000-01-23 P5000-01-24 T-42000 T-42070 T-45600 T-46820 T-D0765 T-F1810 121420	Right Ventricle Length         Right Ventricle Width         Aortic Annulus Diameter         Mitral Annulus Diameter         Tricuspid Annulus Diameter         Ductus Arteriosus Diameter         Aorta         Thoracic aorta         Middle Cerebral Artery         Uterine Artery         Descending Aorta         Umbilical Artery         Equation
99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS SRT SRT SRT SRT SRT SRT SRT SRT SRT DCM DCM	P5000-01-19 P5000-01-20 P5000-01-21 P5000-01-22 P5000-01-23 P5000-01-24 T-42000 T-42070 T-45600 T-46820 T-D0765 T-F1810 121420 125001	Right Ventricle LengthRight Ventricle WidthAortic Annulus DiameterMitral Annulus DiameterTricuspid Annulus DiameterDuctus Arteriosus DiameterAortaThoracic aortaMiddle Cerebral ArteryUterine ArteryDescending AortaUmbilical ArteryEquationFetal Biometry Ratios
99PMSBLUS 99PMSBLUS 99PMSBLUS 99PMSBLUS SRT SRT SRT SRT SRT SRT SRT SRT DCM	P5000-01-19 P5000-01-20 P5000-01-21 P5000-01-22 P5000-01-23 P5000-01-24 T-42000 T-42070 T-45600 T-46820 T-D0765 T-F1810 121420	Right Ventricle Length         Right Ventricle Width         Aortic Annulus Diameter         Mitral Annulus Diameter         Tricuspid Annulus Diameter         Ductus Arteriosus Diameter         Aorta         Thoracic aorta         Middle Cerebral Artery         Uterine Artery         Descending Aorta         Umbilical Artery         Equation

DCM	125004	Fetal Cranium
DCM	125005	Biometry Group
DCM	125008	Fetus Summary
DCM	125009	Early Gestation
DCM	125012	Growth Percentile Rank

# **OB Study Info**

Label	Referenced Template ID (TID)	Туре	Units
Height	5001, Line 3	NUM	m
Weight	5001, Line 4	NUM	kg
LMP	5002, Line 2	DATE	
Conception Date	5002, Line 2	DATE	
EDD	5002, Line 2	DATE	
GA	5002, Line 2	NUM	
Diabetic	Private	CHECK	
Diabetic Type	Private	TEXT	
No. of Fetuses	5002, Line 3	NUM	no units
Gravida	5001, Line 5	NUM	no units
Para	5001, Line 6	NUM	no units
Aborta	5001, Line 7	NUM	no units
Ectopic	5001, Line 8	NUM	no units

# **GYN Study Info**

Label	Referenced Template ID (TID)	Туре	Units
Height	5001, Line 3	NUM	m
Weight	5001, Line 4	NUM	kg
Expected Ovulation	Private	DATE	
Abnormal Cycles	Private	CHECK	
Birth Control Medication	Private	CHECK	
Birth Control Medication	Private	TEXT	
Duration	Duit un tra		_
Hormone Replacement Therapy	Private	CHECK	_
Hormone Replacement Therapy Year Started	Private	TEXT	
Menopause	Private	CHECK	
Pelvic Pain Right	Private	CHECK	
Pelvic Pain Left	Private	CHECK	
Bleeding	Private	CHECK	
Bleeding Duration	Private	TEXT	
Complete Hysterectomy	Private	CHECK	
Partial Hysterectomy	Private	CHECK	
Ovary Surgery Right	Private	CHECK	
Ovary Surgery Left	Private	CHECK	
Ovary Surgery Bilateral	Private	CHECK	
Endometrium	Private	TEXT	

# Additional Codes and Modifiers Used OB-GYN – TID5000

OB OTIC TID0000			
_T / CID	CSD	CV	CM
CID 224	DCM	121410	User chosen value
CID 224	DCM	121411	Most recent value chosen
CID 228	DCM	121424	Table of Values
TID 310, Row 6	DCM	121404	Selection Status
TID 1008, Row 4	LN	11951-1	Fetus ID
TID 300, Row 4	DCM	121401	Derivation
CID 226,3488,3627	SRT	R-00317	Mean (and others)
CID 224	DCM	121412	Mean Value Chosen
TID 5103	SRT	G-C0E3	Finding Site
TID 5103	SRT	G-C171	Laterality
CID 2	SRT	G-A101	Left

T / CID	CSD	CV	СМ
CID 2	SRT	G-A100	Right
TID 5000, Row 17	LN	11879-4	Number of follicles in left ovary
TID 5000, Row 18	LN	11880-2	Number of follicles in right ovary
TID 5014, Row 2	DCM	12510	Identifier
TID 5014, Row 4	LN	11793-7	Follicle Diameter
TID 5013, Row 2	SRT	T-87600	Ovarian Follicle
TID 5000, Row 20	SRT	T-F6800	Embryonic Vascular Structure
TID 5000, Row 23	SRT	T-D6007	Pelvic Vascular Structure
TID 5010, Row 2	SRT	T-F1300	Amniotic Sac
TID 5010, Row 3	LN	11627-7	Amniotic Fluid Index
TID 5012, Row 2	SRT	T-87000	Ovary
TID 5012, Row 3	LN	11829-9	Left Ovary Width
	LN	11840-6	Left Ovary Length
	LN	11857-0	Left Ovary Height
	LN	12164-0	Left Ovary Volume
TID 5012, Row 4	LN	11830-7	Right Ovary Width
	LN	11841-4	Right Ovary Length
	LN	11858-8	Right Ovary Height
	LN	12165-7	Right Ovary Volume

# TID 5100 VASCULAR ULTRASOUND PROCEDURE REPORT

Vascular is the same on both iU22 and iE33. Only iU22 supports Abdominal.

The following tables present information used in Structured Reports for this template.

The tables are sorted by the Label value, which corresponds to the label displayed in the analysis application and reports displayed on the system.

The Measurements table is followed by the Calculations table and then a Concepts or Anatomic Location table which lists the actual Coding Scheme Designator, Code Value and Code Meaning used in the Template section.

The last table in the section is the list of Patient Data Entry (PDE) screen entries that will export in the Structured Report that is specific to the Study Type chosen in the PDE.

Reference for the columns in the mapping table to TID 5100		
Finding Site	TID 5100, Row 9 – 27, \$SectionScope	
Anatomy Group	TID 5100, Row 9 – 27, \$Anatomy	
Modifiers	TID 5100, Row 9 – 27, \$SectionLaterality	
Anatomy Ratio	TID 5100, Row 9 – 27, \$AnatomyRatio	

# Application: Vascular, Measurements

Label	Section Scope	Anatomy Group	Modifiers
Antecube	Artery Of Upper Extremity	Antecube	
Ax A	Artery Of Upper Extremity	Axillary Artery	
Ax V	Vein Of Upper Extremity	Axillary vein	
Brachioceph A	Artery Of Upper Extremity	Innominate Artery	
Brachioceph V	Vein Of Upper Extremity	Innominate vein	
Bulb	Artery of neck	Carotid Bulb	
CCA - ratio	Artery of neck	ICA/CCA Ratio Denominator	
CFA	Artery of Lower Extremity	Common Femoral Artery	
CFV	Vein of Lower Extremity	Common Femoral Vein	
Com Iliac A	Artery of Lower Extremity	Common Iliac Artery	
Com Iliac V	Vein of Lower Extremity	Common Iliac Vein	
Dist ATA	Artery of Lower Extremity	Anterior Tibial Artery	Segment: Distal
Dist ATV	Vein of Lower Extremity	Anterior Tibial Vein	Segment: Distal
Dist Basilic V	Vein Of Upper Extremity	Basilic vein	Segment: Distal
Dist Brach A	Artery Of Upper Extremity	Brachial Artery	Segment: Distal
Dist Brach V	Vein Of Upper Extremity	Brachial vein	Segment: Distal
Dist CCA	Artery of neck	Common Carotid Artery	Segment: Distal
Dist Ceph V	Vein Of Upper Extremity	Cephalic vein	Segment: Distal
Dist GSV Calf	Vein of Lower Extremity	Great Saphenous Vein of Calf	Segment: Distal
Dist GSV Thigh	Vein of Lower Extremity	Great Saphenous Vein of Thigh	Segment: Distal
Dist ICA	Artery of neck	Internal Carotid Artery	Segment: Distal
Dist LSV	Vein of Lower Extremity	Lesser Saphenous Vein	Segment: Distal
Dist Pero A	Artery of Lower Extremity	Peroneal Artery	Segment: Distal
Dist Pero V	Vein of Lower Extremity	Peroneal Vein	Segment: Distal
Dist Pop A	Artery of Lower Extremity	Popliteal Artery	Segment: Distal
Dist Pop V	Vein of Lower Extremity	Popliteal Vein	Segment: Distal
Dist PTA	Artery of Lower Extremity	Posterior Tibial Artery	Segment: Distal
Dist PTV	Vein of Lower Extremity	Posterior Tibial Vein	Segment: Distal
Dist Rad A	Artery Of Upper Extremity	Radial Artery	Segment: Distal
Dist Rad V	Vein Of Upper Extremity	Radial vein	Segment: Distal
Dist SFA	Artery of Lower Extremity	Superficial Femoral Artery	Segment: Distal
Dist SFV	Vein of Lower Extremity	Superficial Femoral Vein	Segment: Distal
Dist Ulnar A	Artery Of Upper Extremity	Ulnar Artery	Segment: Distal
Dist Ulnar V	Vein Of Upper Extremity	Ulnar vein	Segment: Distal
Dor Pedis	Artery of Lower Extremity	Dorsalis Pedis Artery	
Ext Iliac A	Artery of Lower Extremity	External Iliac Artery	
Ext Iliac V	Vein of Lower Extremity	External Iliac Vein	
ICA - ratio	Artery of neck	ICA/CCA Ratio Nominator	

Label	Section Scope	Anatomy Group	Modifiers
IJV	Vein Of Upper Extremity	Internal Jugular vein	
Int Iliac A	Artery of Lower Extremity	Internal Iliac Artery	
Int Iliac V	Vein of Lower Extremity	Internal iliac vein	
Lat Sural V	Vein of Lower Extremity	Gastrocnemius vein	Branch: Lateral
Med Sural V	Vein of Lower Extremity	Gastrocnemius vein	Branch: Medial
Mid ATA	Artery of Lower Extremity	Anterior Tibial Artery	Segment: Mid-longitudinal
Mid ATV	Vein of Lower Extremity	Anterior Tibial Vein	Segment: Mid-longitudinal
Mid Basilic V	Vein Of Upper Extremity	Basilic vein	Segment: Mid-longitudinal
Mid CCA	Artery of neck	Common Carotid Artery	Segment: Mid-longitudinal
Mid Ceph V	Vein Of Upper Extremity	Cephalic vein	Segment: Mid-longitudinal
Mid GSV Calf	Vein of Lower Extremity	Great Saphenous Vein of Calf	Segment: Mid-longitudinal
Mid GSV Thigh	Vein of Lower Extremity	Great Saphenous Vein of Thigh	Segment: Mid-longitudinal
Mid ICA	Artery of neck	Internal Carotid Artery	Segment: Mid-longitudinal
Mid LSV	Vein of Lower Extremity	Lesser Saphenous Vein	Segment: Mid-longitudinal
Mid Pero A	Artery of Lower Extremity	Peroneal Artery	Segment: Mid-longitudinal
Mid Pero V	Vein of Lower Extremity	Peroneal Vein	Segment: Mid-longitudinal
Mid Pop V	Vein of Lower Extremity	Popliteal Vein	Segment: Mid-longitudinal
Mid PTA	Artery of Lower Extremity	Posterior Tibial Artery	Segment: Mid-longitudinal
Mid PTV	Vein of Lower Extremity	Posterior Tibial Vein	Segment: Mid-longitudinal
Mid Rad A	Artery Of Upper Extremity	Radial Artery	Segment: Mid-longitudinal
Mid Rad V	Vein Of Upper Extremity	Radial vein	Segment: Mid-longitudinal
Mid SCL A	Artery of neck	Subclavian Artery	Segment: Mid-longitudinal
Mid SCL V	Vein Of Upper Extremity	Subclavian vein	Segment: Mid-longitudinal
Mid SFA	Artery of Lower Extremity	Superficial Femoral Artery	Segment: Mid-longitudinal
Mid SFV	Vein of Lower Extremity	Superficial Femoral Vein	Segment: Mid-longitudinal
Mid Ulnar A	Artery Of Upper Extremity	Ulnar Artery	Segment: Mid-longitudinal
Mid Ulnar V	Vein Of Upper Extremity	Ulnar vein	Segment: Mid-longitudinal
Prox ATA	Artery of Lower Extremity	Anterior Tibial Artery	Segment: Proximal
Prox ATV	Vein of Lower Extremity	Anterior Tibial Vein	Segment: Proximal
Prox Basilic V	Vein Of Upper Extremity	Basilic vein	Segment: Proximal
Prox Brach A	Artery Of Upper Extremity	Brachial Artery	Segment: Proximal
Prox Brach V	Vein Of Upper Extremity	Brachial vein	Segment: Proximal
Prox CCA	Artery of neck	Common Carotid Artery	Segment: Proximal
Prox Ceph V	Vein Of Upper Extremity	Cephalic vein	Segment: Proximal
Prox DPF V	Vein of Lower Extremity	Profunda Femoris Vein	Segment: Proximal
Prox ECA	Artery of neck	External Carotid Artery	Segment: Proximal
Prox GSV Calf	Vein of Lower Extremity	Great Saphenous Vein of Calf	Segment: Proximal
Prox GSV Thigh	Vein of Lower Extremity	Great Saphenous Vein of Thigh	Segment: Proximal
Prox ICA	Artery of neck	Internal Carotid Artery	Segment: Proximal
Prox LSV	Vein of Lower Extremity	Lesser Saphenous Vein	Segment: Proximal
Prox Pero A	Artery of Lower Extremity	Peroneal Artery	Segment: Proximal
Prox Pero V	Vein of Lower Extremity	Peroneal Vein	Segment: Proximal
Prox PFA	Artery of Lower Extremity	Profunda Femoris Artery	Segment: Proximal
Prox Pop A	Artery of Lower Extremity	Popliteal Artery	Segment: Proximal
Prox Pop V	Vein of Lower Extremity	Popliteal Vein	Segment: Proximal
Prox PTA	Artery of Lower Extremity	Posterior Tibial Artery	Segment: Proximal
Prox PTV	Vein of Lower Extremity	Posterior Tibial Vein	Segment: Proximal
Prox Rad A	Artery Of Upper Extremity	Radial Artery	Segment: Proximal
Prox Rad V	Vein Of Upper Extremity	Radial vein	Segment: Proximal
Prox SCL A	Artery of neck	Subclavian Artery	Segment: Proximal
Prox SCL V	Vein Of Upper Extremity	Subclavian vein	Segment: Proximal
Prox SFA	Artery of Lower Extremity	Superficial Femoral Artery	Segment: Proximal
Prox SFV	Vein of Lower Extremity	Superficial Femoral Vein	Segment: Proximal
Prox Ulnar A	Artery Of Upper Extremity	Ulnar Artery	Segment: Proximal
Prox Ulnar V	Vein Of Upper Extremity	Ulnar vein	Segment: Proximal
SFJ	Vein of Lower Extremity	Saphenofemoral Junction	
Vertebral A	Artery of neck	Vertebral Artery	
VERCORA			

# Application: Vascular, Calculations

Label	Section Scope	Anatomy Ratio	Modifiers	

Label	Section Scope	Anatomy Ratio	Modifiers
ICA/CCA Ratio	Artery of neck	ICA/CCA velocity ratio	

#### **Application: Abdomen, Measurements**

Label	Section Scope	Anatomy Group	Modifiers
Celiac A	Artery of Abdomen	Celiac Axis	
Com Hepatic A	Artery of Abdomen	Common Hepatic Artery	
Dist Ao	Artery of Abdomen	Aorta	Segment: Distal
Dist IVC	Vein of Abdomen	Inferior Vena Cava	Segment: Distal
Dist Ren A	Vascular Structure Of Kidney	Renal Artery	Segment: Distal
Dist SMA	Artery of Abdomen	Superior Mesenteric Artery	Segment: Distal
GDA	Artery of Abdomen	Gastroduodenal Artery	
Hilar A	Vascular Structure Of Kidney	Hilar Artery	
IMA	Artery of Abdomen	Inferior Mesenteric Artery	
IMV	Vein of Abdomen	Inferior Mesenteric Vein	
Inf Arc	Vascular Structure Of Kidney	Arcuate Artery of the Kidney	Branch: Inferior
Inf Ren Ao	Artery of Abdomen	Infra-renal Aorta	
Inf Seg	Vascular Structure Of Kidney	Segmental Artery	Branch: Inferior
L Hepatic A	Artery of Abdomen	Left Branch of Hepatic Artery	
L Hepatic V	Vein of Abdomen	Left Hepatic Vein	
L Port V	Vein of Abdomen	Left Main Branch of Portal Vein	
M Hepatic V	Vein of Abdomen	Middle Hepatic Vein	
M Port V	Vein of Abdomen	Portal Vein	
Med Arc	Vascular Structure Of Kidney	Arcuate Artery of the Kidney	Branch: Medial
Med Seg	Vascular Structure Of Kidney	Segmental Artery	Branch: Medial
Mid Ren A	Vascular Structure Of Kidney	Renal Artery	Segment: Mid-longitudinal
Mid SMA	Artery of Abdomen	Superior Mesenteric Artery	Segment: Mid-longitudinal
Prox IVC	Vein of Abdomen	Inferior Vena Cava	Segment: Proximal
Prox Ren A	Vascular Structure Of Kidney	Renal Artery	Segment: Proximal
Prox SMA	Artery of Abdomen	Superior Mesenteric Artery	Segment: Proximal
R Hepatic A	Artery of Abdomen	Right Branch of Hepatic Artery	
R Hepatic V	Vein of Abdomen	Right Hepatic Vein	
R Port V	Vein of Abdomen	Right Main Branch of Portal Vein	
Ren A Org	Vascular Structure Of Kidney	Renal Artery	Segment: Origin of vessel
Ren V	Vascular Structure Of Kidney	Renal Vein	
SMV	Vein of Abdomen	Superior Mesenteric Vein	
Splenic A	Artery of Abdomen	Splenic Artery	
Splenic V	Vein of Abdomen	Splenic Vein	
Sup Arc	Vascular Structure Of Kidney	Arcuate Artery of the Kidney	Branch: Superior
Sup Ren Ao	Artery of Abdomen	Supra-renal Aorta	
Sup Seg	Vascular Structure Of Kidney	Segmental Artery	Branch: Superior

#### **Application: Abdomen, Calculations**

Label	Section Scope	Anatomy Group	Modifiers
Kid Volume	Anatomic Structures	Kidney	

# Application: Vascular, Abdominal, TCD, Anatomical Locations

The table below represent the codes exported by the system for the preceding Measurements and Calculations listed in the tables above, sorted by Code Value (cv).

csd	CV	cm
99PMSBLUS	C12104-01	ICA/CCA Ratio Numerator
99PMSBLUS	C12104-02	ICA/CCA Ratio Denominator
99PMSBLUS	C12105-01	MCA/Dist ICA Ratio Numerator
99PMSBLUS	C12105-02	MCA/Dist ICA Ratio Denominator
99PMSBLUS	C12105-04	Vertebral Artery in TCD
99PMSBLUS	C4-01	Post Void Bladder
SRT	G-035A	Superficial Femoral Vein
SRT	G-035B	Common Femoral Vein
SRT	G-035C	Hilar Artery

CDT	C 0269	Antonion Middle Conchural Artony Diffurcation
SRT SRT	G-0368 G-0369	Anterior-Middle Cerebral Artery Bifurcation Anterior-Posterior Cerebral Artery Bifurcation
SRT	G-0369 G-A118	Proximal
SRT	G-A118 G-A119	Distal
SRT	G-A119 G-A188	Mid-longitudinal
SRT	R-1024F	Middle Cerebral Artery M1 Segment
SRT	R-1024F	Middle Cerebral Artery M2 Segment
SRT	R-10253	Posterior Cerebral Artery P1 Segment
SRT	R-10255	Posterior Cerebral Artery P1 Segment
SRT	R-10255	Great Saphenous Vein of Thigh
SRT	R-10255	Great Saphenous Vein of Calf
SRT	R-1025A R-102BD	Terminal internal carotid artery
99PMSBLUS	sup71 001	Antecube
SRT	T-42000	Aorta
SRT	T-42510	Supra-renal Aorta
SRT	T-42520	Infra-renal Aorta
SRT	T-45100	Common Carotid Artery
SRT	T-45170	Carotid Bulb
SRT	T-45200	External Carotid Artery
SRT	T-45300	Internal Carotid Artery
SRT	T-45308	Carotid Siphon
SRT	T-45320	Posterior Communicating Artery
SRT	T-45400	Ophthalmic Artery
SRT	T-45530	Anterior Communicating Artery
SRT	T-45540	Anterior Cerebral Artery
SRT	T-45700	Vertebral Artery
SRT	T-45800	Basilar Artery
SRT	T-46010	Innominate Artery
SRT	T-46100	Subclavian Artery
SRT	T-46400	Celiac Axis
SRT	T-46421	Common Hepatic Artery
SRT	T-46423	Right Branch of Hepatic Artery
SRT	T-46427	Left Branch of Hepatic Artery
SRT	T-46440	Gastroduodenal Artery
SRT	T-46460	Splenic Artery
SRT	T-46510	Superior Mesenteric Artery
SRT	T-46520	Inferior Mesenteric Artery
SRT	T-46600	Renal Artery
SRT	T-46659	Segmental Artery
SRT	T-4668A	Arcuate Artery of the Kidney
SRT	T-46710	Common Iliac Artery
SRT	T-46740	Internal Iliac Artery
SRT	T-46910	External Iliac Artery
SRT	T-47100	Axillary Artery
SRT	T-47160	Brachial Artery
SRT	T-47200	Ulnar Artery
SRT	T-47300	Radial Artery
SRT	T-47400	Common Femoral Artery
SRT	T-47403	Superficial Femoral Artery
SRT	T-47440	Profunda Femoris Artery
SRT	T-47500	Popliteal Artery
SRT	T-47600	Posterior Tibial Artery
SRT	T-47630	Peroneal Artery
SRT	T-47700	Anterior Tibial Artery
SRT	T-47741	Dorsalis Pedis Artery
SRT	T-48052	Basilic vein
SRT	T-48170	Internal Jugular vein
SRT	T-48330	Subclavian vein
SRT	T-48620	Innominate vein
SNM3	T-48710	Inferior Vena Cava
SRT	T-48725	Right Hepatic Vein
SRT	T-48726	Middle Hepatic Vein
SRT	T-48727	Left Hepatic Vein

SRT	T-48740	Renal Vein	
SRT	T-48810	Portal Vein	
SRT	T-4881F	Left Main Branch of Portal Vein	
SRT	T-4882A	Right Main Branch of Portal Vein	
SRT	T-48840	Superior Mesenteric Vein	
SRT	T-48890	Splenic Vein	
SRT	T-48910	Inferior Mesenteric Vein	
SRT	T-48920	Common Iliac Vein	
SRT	T-48930	External Iliac Vein	
SRT	T-48940	Internal iliac vein	
SRT	T-49110	Axillary vein	
SRT	T-49240	Cephalic vein	
SRT	T-49330	Ulnar vein	
SRT	T-49340	Radial vein	
SRT	T-49350	Brachial vein	
SRT	T-4942D	Gastrocnemius vein	
SRT	T-49550	Lesser Saphenous Vein	
SRT	T-49620	Posterior Tibial Vein	
SRT	T-49630	Anterior Tibial Vein	
SRT	T-49640	Popliteal Vein	
SRT	T-49650	Peroneal Vein	
SRT	T-49660	Profunda Femoris Vein	
SNM3	T-60610	Bileduct	
SNM3	T-62000	Liver	
SNM3	T-63000	Gallbladder	
SNM3	T-71000	Kidney	
SNM3	T-74000	Bladder	
SNM3	T-C3000	Spleen	
SRT	T-D930A	Saphenofemoral Junction	

# Vascular PDE / Study Info

Label	Referenced Template ID (TID)	Туре	Units
Height	5101, Line 3	NUM	m
Weight	5101, Line 4	NUM	kg
Smoker	Private	CHECK	
Hypertension	Private	CHECK	
Diabetic	Private	CHECK	
Diabetic Type	Private	TEXT	
Recent Injury	Private	TEXT	
Surgeries	Private	TEXT	
Aphasia	Private	CHECK	
Double Vision	Private	CHECK	
Memory Loss	Private	CHECK	
Syncope	Private	CHECK	
Confusion	Private	CHECK	
Bruit	Private	CHECK	
Stroke	Private	CHECK	
Stroke Date	Private	DATE	
Endarterectomy Right	Private	CHECK	
Endarterectomy Left	Private	CHECK	
Endarterectomy Date	Private	DATE	
Hemiparesis Right	Private	CHECK	
Hemiparesis Left	Private	CHECK	
Weakness Right	Private	CHECK	
Weakness Left	Private	CHECK	
Amaurosis Fugax Right	Private	CHECK	
Amaurosis Fugax Left	Private	CHECK	
Obesity	Private	CHECK	
Edema	Private	CHECK	
Previous DVT Right	Private	CHECK	
Previous DVT Left	Private	CHECK	
History of Pulmonary Thrombosis	Private	CHECK	

Label	Referenced Template ID (TID)	Туре	Units
History of Malignancy	Private	CHECK	
Pregnant	Private	CHECK	
Birth Control Medication	Private	CHECK	
Birth Control Medication Duration	Private	TEXT	
Claudication	Private	TEXT	

## Abdominal PDE / Study Info

Label	Referenced Template ID (TID)	Туре	Units
Height	5101, Line 3	NUM	m
Weight	5101, Line 4	NUM	kg
RUQ Pain	Private	CHECK	
LUQ Pain	Private	CHECK	
Midline Pain	Private	CHECK	
RLQ Pain	Private	CHECK	
LLQ Pain	Private	CHECK	
Periumbilical Pain	Private	CHECK	
Nausea	Private	CHECK	
Nausea Duration	Private	TEXT	
Vomiting	Private	CHECK	
Vomiting Duration	Private	TEXT	
Diarrhea	Private	CHECK	
Diarrhea Duration	Private	TEXT	
Weight Loss	Private	CHECK	
Weight Loss Duration	Private	TEXT	
Abnormal Lab Values	Private	TEXT	
History of Aortic Aneurysm	Private	CHECK	
Previous Measurement	Private	TEXT	
Aortic Aneurysm Date	Private	DATE	
Cholesystectomy	Private	CHECK	
Cholesystectomy Date	Private	DATE	
TIPSS	Private	CHECK	
TIPSS Date	Private	DATE	
Other Surgeries	Private	TEXT	

# Additional Codes and Modifiers Used VASCULAR – TID5100

T / CID	CSD	CV	СМ
	99PMSBLUS	T5100-01	Anatomic Structures
	99PMSBLUS	T5100-02	Anatomic Structures (unilateral)
CID 4031	SNM3	T-60610	Bileduct
TID 300, Row 7	SRT	G-A1F8	Topographical Modifier
TID 5100, Row 9, 10, 11	SRT	T-40501	Blood Vessel of the Head
TID 5100, Row 12, 13	SRT	T-45005	Artery of neck
TID 5100, Row 24, 25, 26	SRT	T-46002	Artery of Abdomen
TID 5100, Row 13, 14	SRT	T-47020	Artery of Upper Extremity
TID 5100, Row 14, 15	SRT	T-47040	Artery of Lower Extremity
TID 5100, Row 27, 28, 29	SRT	T-487A0	Vein of Abdomen
TID 5100, Row 20, 21	SRT	T-49103	Vein of Upper Extremity
TID 5100, Row 16, 17	SRT	T-49403	Vein of Lower Extremity
TID 5100, Row 22, 23	SRT	T-71019	Vascular Structure of Kidney

# TID 5200 ADULT ECHOCARDIOGRAPHY PROCEDURE REPORT

The following tables present information used in Structured Reports for this template.

The tables are sorted by the Label value, which corresponds to the label displayed in the analysis application and reports displayed on the system.

The Measurements table is followed by the Calculations table and then a Concepts or Anatomic Location table which lists the actual Coding Scheme Designator, Code Value and Code Meaning used in the Template section.

The last table in the section is the list of Patient Data Entry (PDE) screen entries that will export in the Structured Report that is specific to the Study Type chosen in the PDE.

Reference for	Reference for the columns in the mapping table to TID 5200				
Finding Site	TID5200, Row 7 through 20, value passed as \$SectionSubject				
Concept	TID5200, Row 7 through 20, value passed as \$MeasType				
Mode	TID5202, Row 4, value OR TID5203, Row 5, value				
Target	TID5203, Row 1, value passed as \$TargetSite				
Method	TID5202, Row 6, value passed as \$Method				
View	TID5203, Row 6, value				
Direction	TID5203, Row 2, value				
Phase	TID5203, Row 4, value				
Disk	TID5203, Row 4, code Private Extension				

All instances of a measurement are exported, in addition to the average, if selected. See the Edit Report page for option selection.

Note: In Analysis setups, it is possible to select multiple results for a single measurement. Default settings are listed in setups via Analysis Config>Adult Echo>Measurements. In most cases, the primary measurement is the only one exported via DICOM. As an example, it is possible to select an automatically derived area measurement based on a single distance. The distance measurement will export, the area will not. Generally, diameter measurements may have an optional area displayed, which will not export.

- Which value selected is communicated using TID310, row 6, Selection Status (121404 $\sqrt{,}$ DCM)
- The mean value is encoded using TID300, row 4, Derivation
- Subresults are exported

	Application. Adult Echo, Measurements				
Label	Site	Concept	Modifiers		
A Wave Amp	Pulmonic Valve	A Wave Amp	Mode: M mode		
A2Cd	Left Ventricle	Left Ventricle MOD Diam	Phase: End Diastole, View: Apical two chamber, Number: 1-20		
A2Cd	Left Ventricle	Left Ventricular Diastolic Area	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber		
A2Cd	Left Ventricle	Left Ventricle diastolic major axis	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber		
A2Cd	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber		
A2Cs	Left Ventricle	Left Ventricle MOD Diam	Phase: End Systole, View: Apical two chamber, Number: 1-20		
A2Cs	Left Ventricle	Left Ventricular Systolic Area	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber		
A2Cs	Left Ventricle	Left Ventricle systolic major axis	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber		
A2Cs	Left Ventricle	Left Ventricular End Systolic Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber		
A4Cd	Left Ventricle	Left Ventricle MOD Diam	Phase: End Diastole, View: Apical four chamber, Number: 1-20		
A4Cd	Left Ventricle	Left Ventricular Diastolic Area	Method: Method of Disks, Single Plane, Mode: 2D		

# Application: Adult Echo, Measurements

<b></b>			mode View: Apical four chamber
A4Cd	Left Ventricle	Left Ventricle diastolic major axis	mode, View: Apical four chamber Method: Method of Disks, Single Plane, Mode: 2D
		5	mode, View: Apical four chamber
A4Cd	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber
A4Cs	Left Ventricle	Left Ventricle MOD Diam	Phase: End Systole, View: Apical four chamber, Number: 1-20
A4Cs	Left Ventricle	Left Ventricular Systolic Area	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber
A4Cs	Left Ventricle	Left Ventricle systolic major axis	Method: Method of Disks, Single Plane, Mode: 2D
A4Cs	Left Ventricle	Left Ventricular End Systolic Volume	mode, View: Apical four chamber Method: Method of Disks, Single Plane, Mode: 2D
AI Accel Time	Aortic Valve	Acceleration Slope	mode, View: Apical four chamber Direction: Regurgitant Flow
AI Accel Time	Aortic Valve	Acceleration Time	Direction: Regurgitant Flow
AI Alias Vel	Aortic Valve	Alias Velocity	Direction: Regurgitant Flow
AI Dec Slope	Aortic Valve	Deceleration Slope	Direction: Regurgitant Flow
AI Dec Slope	Aortic Valve	Deceleration Time	Direction: Regurgitant Flow
AI End Dias Vel	Aortic Valve	End Diastolic Velocity	Direction: Regurgitant Flow
AI P ½ t	Aortic Valve	Pressure Half-Time	Direction: Regurgitant Flow
AI Radius	Aortic Valve	Flow Radius	Direction: Regurgitant Flow
AI Vmax	Aortic Valve	Peak Gradient	Direction: Regurgitant Flow
AI Vmax	Aortic Valve	Peak Velocity	Direction: Regurgitant Flow
AI VTI	Aortic Valve	Mean Gradient	Direction: Regurgitant Flow
AI VTI	Aortic Valve	Mean Velocity	Direction: Regurgitant Flow
AI VTI	Aortic Valve	Velocity Time Integral	Direction: Regurgitant Flow
Annul 2D Area	Mitral Valve	Area	Mode: 2D mode, Target: Mitral Annulus
Annul 3D Circ	Mitral Valve	Mitral Valve Annulus 3D Circumference	Mode: 3D mode, Target: Mitral Annulus
Annul Height	Mitral Valve	Height	Mode: 2D mode, Target: Mitral Annulus
Ant Lat Chord	Mitral Valve	Mitral Valve Anterolateral Chord Length	Mode: 2D mode
Ant Lat Post Med Diam	Mitral Valve	Mitral Valve Anterolateral Posteromedial Diameter	Mode: 2D mode
Ant Leaflet	Mitral Valve	Mitral Valve Anterior Leaflet Length	Mode: 2D mode
Ant Leaflet Angle	Mitral Valve	Mitral Valve Anterior Leaflet Angle	Mode: 2D mode
Ant Leaflets 3D Area	Mitral Valve	Mitral Valve Anterior Leaflets 3D Area	Mode: 3D mode
Ant Post Diam	Mitral Valve	Mitral Valve Anterior Posterior Diameter	Mode: 2D mode
Ao Arch Diam	Aorta	Aortic Arch Diameter	Mode: 2D mode
Ao Isthmus Diam	Aorta	Aortic Isthmus Diameter	Mode: 2D mode
Ao Or – Mitr Plane Angle	Mitral Valve	Mitral Valve Aortic Orifice to Mitral Plane Angle	Mode: 2D mode
Angle AoR Diam (2D)	Aorta	Aortic Root Diameter	Mode: 2D mode
AoR Diam (MM)	Aorta	Aortic Root Diameter	Mode: M mode
AP2 SP EDA SM	Left Ventricle	Left Ventricular Diastolic Area	Method: QLab Simple Area Method, Single Plane, Mode: 2D mode, TraceType: QLab Speckle Tracking Method, View: Apical two chamber
AP2 SP EDV SM (A/L)	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Speckle Tracking Method, View: Apical two chamber
AP2 SP EDV SM (MD)	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Speckle Tracking Method, View: Apical two chamber
AP2 SP EF SM (A/L)	Left Ventricle	Left Ventricular Ejection Fraction	Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Speckle Tracking Method, View: Apical two chamber
AP2 SP EF SM (MD)	Left Ventricle	Left Ventricular Ejection Fraction	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Speckle Tracking Method, View: Apical two chamber
AP2 SP ESA SM	Left Ventricle	Left Ventricular Systolic Area	Method: QLab Simple Area Method, Single Plane, Mode: 2D mode, TraceType: QLab Speckle

			Tracking Method, View: Apical two chamber
AP2 SP ESV SM	Left Ventricle	Left Ventricular End Systolic	Method: Area-Length Single Plane, Mode: 2D
(A/L)		Volume	mode, TraceType: QLab Speckle Tracking
			Method, View: Apical two chamber
AP2 SP ESV SM	Left Ventricle	Left Ventricular End Systolic	Method: Method of Disks, Single Plane, Mode: 2D
(MD)		Volume	mode, TraceType: QLab Speckle Tracking
			Method, View: Apical two chamber
AP2 SP FAC SM	Left Ventricle	Left Ventricular Fractional Area	Method: QLab Simple Area Method, Single Plane,
		Change	Mode: 2D mode, TraceType: QLab Speckle
			Tracking Method, View: Apical two chamber
AP4 SP EDA SM	Left Ventricle	Left Ventricular Diastolic Area	Method: QLab Simple Area Method, Single Plane,
			Mode: 2D mode, TraceType: QLab Speckle
			Tracking Method, View: Apical four chamber
AP4 SP EDV SM	Left Ventricle	Left Ventricular End Diastolic	Method: Area-Length Single Plane, Mode: 2D
(A/L)		Volume	mode, TraceType: QLab Speckle Tracking
			Method, View: Apical four chamber
AP4 SP EDV SM	Left Ventricle	Left Ventricular End Diastolic	Method: Method of Disks, Single Plane, Mode: 2D
(MD)		Volume	mode, TraceType: QLab Speckle Tracking
			Method, View: Apical four chamber
AP4 SP EF SM (A/L)	Left Ventricle	Left Ventricular Ejection Fraction	Method: Area-Length Single Plane, Mode: 2D
			mode, TraceType: QLab Speckle Tracking
			Method, View: Apical four chamber
AP4 SP EF SM (MD)	Left Ventricle	Left Ventricular Ejection Fraction	Method: Method of Disks, Single Plane, Mode: 2D
			mode, TraceType: QLab Speckle Tracking
			Method, View: Apical four chamber
AP4 SP ESA SM	Left Ventricle	Left Ventricular Systolic Area	Method: QLab Simple Area Method, Single Plane,
			Mode: 2D mode, TraceType: QLab Speckle
			Tracking Method, View: Apical four chamber
AP4 SP ESV SM	Left Ventricle	Left Ventricular End Systolic	Method: Area-Length Single Plane, Mode: 2D
(A/L)		Volume	mode, TraceType: QLab Speckle Tracking
			Method, View: Apical four chamber
AP4 SP ESV SM	Left Ventricle	Left Ventricular End Systolic	Method: Method of Disks, Single Plane, Mode: 2D
(MD)		Volume	mode, TraceType: QLab Speckle Tracking
			Method, View: Apical four chamber
AP4 SP FAC SM	Left Ventricle	Left Ventricular Fractional Area	Method: QLab Simple Area Method, Single Plane,
		Change	Mode: 2D mode, TraceType: QLab Speckle
			Tracking Method, View: Apical four chamber
Asc Aorta Diam	Aorta	Ascending Aortic Diameter	Mode: 2D mode
AV Accel Time	Aortic Valve	Acceleration Slope	Direction: Antegrade Flow
AV Accel Time	Aortic Valve	Acceleration Time	Direction: Antegrade Flow
AV Area	Aortic Valve	Cardiovascular Orifice Area	Method: Planimetry, Mode: 2D mode
AV Cusp Sep	Aortic Valve	Aortic Valve Cusp Separation	Mode: M mode
AV Decel Time	Aortic Valve	Deceleration Time	Direction: Antegrade Flow
AV Vmax	Aortic Valve	Peak Gradient	Direction: Antegrade Flow
AV Vmax	Aortic Valve	Peak Velocity	Direction: Antegrade Flow
AV VTI	Aortic Valve	Mean Gradient	Direction: Antegrade Flow
AV VTI	Aortic Valve	Mean Velocity	Direction: Antegrade Flow
AV VTI	Aortic Valve	Velocity Time Integral	Direction: Antegrade Flow
B-C Slope	Pulmonic Valve	B-C Slope	Mode: M mode
CAK1 AP2 (AV)	Aortic Valve	Displacement of the left Aortic	Mode: 2D mode, TraceType: QLab Simple
		annular hingepoint with respect to	Method, View: Apical two chamber
		the apex	
CAK1 AP2 (MV)	Mitral Valve	Displacement of the left mitral	Mode: 2D mode, TraceType: QLab Simple
	-	annular hingepoint with respect to	Method, View: Apical two chamber
		the apex	
CAK1 AP2 (PV)	Pulmonic Valve	Displacement of the left Pulmonic	Mode: 2D mode, TraceType: QLab Simple
		annular hingepoint with respect to	Method, View: Apical two chamber
		the apex	
CAK1 AP2 (TV)	Tricuspid Valve	Displacement of the left Tricuspid	Mode: 2D mode, TraceType: QLab Simple
( - )		annular hingepoint with respect to	Method, View: Apical two chamber
		the apex	
CAK1 AP4 (AV)	Aortic Valve	Displacement of the left Aortic	Mode: 2D mode, TraceType: QLab Simple
		annular hingepoint with respect to	Method, View: Apical four chamber

CAK1 AP4 (MV)	Mitral Valve	Displacement of the left mitral annular hingepoint with respect to the apex	Mode: 2D mode, TraceType: QLab Simple Method, View: Apical four chamber
CAK1 AP4 (PV)	Pulmonic Valve	Displacement of the left Pulmonic annular hingepoint with respect to the apex	Mode: 2D mode, TraceType: QLab Simple Method, View: Apical four chamber
CAK1 AP4 (TV)	Tricuspid Valve	Displacement of the left Tricuspid annular hingepoint with respect to the apex	Mode: 2D mode, TraceType: QLab Simple Method, View: Apical four chamber
CAK2 AP2 (AV)	Aortic Valve	Displacement of the right Aortic annular hingepoint with respect to the apex	Mode: 2D mode, TraceType: QLab Simple Method, View: Apical two chamber
CAK2 AP2 (MV)	Mitral Valve	Displacement of the right mitral annular hingepoint with respect to the apex	Mode: 2D mode, TraceType: QLab Simple Method, View: Apical two chamber
CAK2 AP2 (PV)	Pulmonic Valve	Displacement of the right Pulmonic annular hingepoint with respect to the apex	Mode: 2D mode, TraceType: QLab Simple Method, View: Apical two chamber
CAK2 AP2 (TV)	Tricuspid Valve	Displacement of the right Tricuspid annular hingepoint with respect to the apex	Mode: 2D mode, TraceType: QLab Simple Method, View: Apical two chamber
CAK2 AP4 (AV)	Aortic Valve	Displacement of the right Aortic annular hingepoint with respect to the apex	Mode: 2D mode, TraceType: QLab Simple Method, View: Apical four chamber
CAK2 AP4 (MV)	Mitral Valve	Displacement of the right mitral annular hingepoint with respect to the apex	Mode: 2D mode, TraceType: QLab Simple Method, View: Apical four chamber
CAK2 AP4 (PV)	Pulmonic Valve	Displacement of the right Pulmonic annular hingepoint with respect to the apex	Mode: 2D mode, TraceType: QLab Simple Method, View: Apical four chamber
CAK2 AP4 (TV)	Tricuspid Valve	Displacement of the right Tricuspid annular hingepoint with respect to the apex	Mode: 2D mode, TraceType: QLab Simple Method, View: Apical four chamber
Coapt 2D	Mitral Valve	Mitral Valve Coaptation 2D Length	Mode: 2D mode
Desc Aorta Diam	Aorta	Descending Aortic Diameter	Mode: 2D mode
EDA_AP2-S-AR-CX	Left Ventricle	Left Ventricular Diastolic Area	Method: QLab Complex Area Method, Single Plane, Mode: 2D mode, View: Apical two chamber
EDA_AP2-S-AR-SM	Left Ventricle	Left Ventricular Diastolic Area	Method: QLab Simple Area Method, Single Plane, Mode: 2D mode, View: Apical two chamber
EDA_AP4-S-AR-CX	Left Ventricle	Left Ventricular Diastolic Area	Method: QLab Complex Area Method, Single Plane, Mode: 2D mode, View: Apical four chamber
EDA_AP4-S-AR-SM	Left Ventricle	Left Ventricular Diastolic Area	Method: QLab Simple Area Method, Single Plane, Mode: 2D mode, View: Apical four chamber
EDA_SAX-S-AR-CX	Left Ventricle	Left Ventricular Diastolic Area	Method: QLab Complex Area Method, Single Plane, Mode: 2D mode, TraceType: QLab Complex Method, View: Parasternal short axis at th
EDA_SAX-S-AR-SM	Left Ventricle	Left Ventricular Diastolic Area	Method: QLab Simple Area Method, Single Plane, Mode: 2D mode, View: Parasternal short axis at the Papillary Muscle level
EDV_3D-VOL	Left Ventricle	Left Ventricular End Diastolic Volume	Method: QLab 3D Volume Data, Mode: 3D mode
EDV_AP2-S-AL-CX	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Complex Method, View: Apical two chamber
EDV_AP2-S-AL-SM	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Simple Method, View: Apical two chamber
EDV_AP2-S-MD-CX	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Complex Method, View: Apical two chamber
EDV_AP2-S-MD-SM	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Simple Method, View:

			Apical two chamber
EDV_AP4-S-AL-CX	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Complex Method, View: Apical four chamber
EDV_AP4-S-AL-SM	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Simple Method, View: Apical four chamber
EDV_AP4-S-MD-CX	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Complex Method, View: Apical four chamber
EDV_AP4-S-MD-SM	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Simple Method, View: Apical four chamber
EDV_AP-B-MD-CX	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Method of Disks, Biplane, Mode: 2D mode, TraceType: QLab Complex Method
EDV_AP-B-MD-SM	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Method of Disks, Biplane, Mode: 2D mode, TraceType: QLab Simple Method
EDV_BP-TEMPL	Left Ventricle	Left Ventricular End Diastolic Volume	Method: QLab Biplane Template, Mode: 3D mode, View: MPR views
EF_3D-VOL EF_AP2-S-AL-CX	Left Ventricle Left Ventricle	Left Ventricular Ejection Fraction Left Ventricular Ejection Fraction	Method: QLab 3D Volume Data, Mode: 3D mode Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Complex Method, View: Apical two chamber
EF_AP2-S-AL-SM	Left Ventricle	Left Ventricular Ejection Fraction	Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Simple Method, View: Apical two chamber
EF_AP2-S-MD-CX	Left Ventricle	Left Ventricular Ejection Fraction	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Complex Method, View: Apical two chamber
EF_AP2-S-MD-SM	Left Ventricle	Left Ventricular Ejection Fraction	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Simple Method, View: Apical two chamber
EF_AP4-S-AL-CX	Left Ventricle	Left Ventricular Ejection Fraction	Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Complex Method, View: Apical four chamber
EF_AP4-S-AL-SM	Left Ventricle	Left Ventricular Ejection Fraction	Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Simple Method, View: Apical four chamber
EF_AP4-S-MD-CX	Left Ventricle	Left Ventricular Ejection Fraction	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Complex Method, View: Apical four chamber
EF_AP4-S-MD-SM	Left Ventricle	Left Ventricular Ejection Fraction	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Simple Method, View: Apical four chamber
EF_AP-B-MD-CX	Left Ventricle	Left Ventricular Ejection Fraction	Method: Method of Disks, Biplane, Mode: 2D mode, TraceType: QLab Complex Method
EF_AP-B-MD-SM	Left Ventricle	Left Ventricular Ejection Fraction	Method: Method of Disks, Biplane, Mode: 2D mode, TraceType: QLab Simple Method
EF_BP-TEMPL	Left Ventricle	Left Ventricular Ejection Fraction	Method: QLab Biplane Template, Mode: 3D mode, View: MPR views
ESA_AP2-S-AR-CX	Left Ventricle	Left Ventricular Systolic Area	Method: QLab Complex Area Method, Single Plane, Mode: 2D mode, View: Apical two chamber
ESA_AP2-S-AR-SM	Left Ventricle	Left Ventricular Systolic Area	Method: QLab Simple Area Method, Single Plane, Mode: 2D mode, View: Apical two chamber
ESA_AP4-S-AR-CX	Left Ventricle	Left Ventricular Systolic Area	Method: QLab Complex Area Method, Single Plane, Mode: 2D mode, View: Apical four chamber
ESA_AP4-S-AR-SM	Left Ventricle	Left Ventricular Systolic Area	Method: QLab Simple Area Method, Single Plane, Mode: 2D mode, View: Apical four chamber
ESA_SAX-S-AR-CX	Left Ventricle	Left Ventricular Systolic Area	Method: QLab Complex Area Method, Single Plane, Mode: 2D mode, View: Parasternal short axis at the Papillary Muscle level
ESA_SAX-S-AR-SM	Left Ventricle	Left Ventricular Systolic Area	Method: QLab Simple Area Method, Single Plane, Mode: 2D mode, View: Parasternal short axis at

			the Papillary Muscle level
ESV_3D-VOL	Left Ventricle	Left Ventricular End Systolic Volume	Method: QLab 3D Volume Data, Mode: 3D mode
ESV_AP2-S-AL-CX	Left Ventricle	Left Ventricular End Systolic Volume	Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Complex Method, View: Apical two chamber
ESV_AP2-S-AL-SM	Left Ventricle	Left Ventricular End Systolic Volume	Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Simple Method, View: Apical two chamber
ESV_AP2-S-MD-CX	Left Ventricle	Left Ventricular End Systolic Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Complex Method, View: Apical two chamber
ESV_AP2-S-MD-SM	Left Ventricle	Left Ventricular End Systolic Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Simple Method, View: Apical two chamber
ESV_AP4-S-AL-CX	Left Ventricle	Left Ventricular End Systolic Volume	Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Complex Method, View: Apical four chamber
ESV_AP4-S-AL-SM	Left Ventricle	Left Ventricular End Systolic Volume	Method: Area-Length Single Plane, Mode: 2D mode, TraceType: QLab Simple Method, View: Apical four chamber
ESV_AP4-S-MD-CX	Left Ventricle	Left Ventricular End Systolic Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Complex Method, View: Apical four chamber
ESV_AP4-S-MD-SM	Left Ventricle	Left Ventricular End Systolic Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, TraceType: QLab Simple Method, View: Apical four chamber
ESV_AP-B-MD-CX	Left Ventricle	Left Ventricular End Systolic Volume	Method: Method of Disks, Biplane, Mode: 2D mode, TraceType: QLab Complex Method
ESV_AP-B-MD-SM	Left Ventricle	Left Ventricular End Systolic Volume	Method: Method of Disks, Biplane, Mode: 2D mode, TraceType: QLab Simple Method
ESV_BP-TEMPL	Left Ventricle	Left Ventricular End Systolic Volume	Method: QLab Biplane Template, Mode: 3D mode, View: MPR views
FAC_AP2-S-AR-CX	Left Ventricle	Left Ventricular Fractional Area Change	Method: QLab Complex Area Method, Single Plane, Mode: 2D mode, View: Apical two chamber
FAC_AP2-S-AR-SM	Left Ventricle	Left Ventricular Fractional Area Change	Method: QLab Simple Area Method, Single Plane, Mode: 2D mode, View: Apical two chamber
FAC_AP4-S-AR-CX	Left Ventricle	Left Ventricular Fractional Area Change	Method: QLab Complex Area Method, Single Plane, Mode: 2D mode, View: Apical four chamber
FAC_AP4-S-AR-SM	Left Ventricle	Left Ventricular Fractional Area Change	Method: QLab Simple Area Method, Single Plane, Mode: 2D mode, View: Apical four chamber
FAC_SAX-S-AR-CX	Left Ventricle	Left Ventricular Fractional Area Change	Method: QLab Complex Area Method, Single Plane, Mode: 2D mode, View: Parasternal short axis at the Papillary Muscle level
FAC_SAX-S-AR-SM	Left Ventricle	Left Ventricular Fractional Area Change	Method: QLab Simple Area Method, Single Plane, Mode: 2D mode, View: Parasternal short axis at the Papillary Muscle level
Hepatic A Revs Dur	Hepatic Veins	Hepatic Vein A-Wave Duration	
Hepatic A Revs Vel	Hepatic Veins	Hepatic Vein Atrial Contraction Reversal Peak Velocity	
Hepatic Dias Vel	Hepatic Veins	Hepatic Vein Diastolic Peak Velocity	
Hepatic Sys Vel	Hepatic Veins	Hepatic Vein Systolic Peak Velocity	
HR – AV	Aortic Valve	Heart rate	
HR – LV	Left Ventricle	Heart rate	
HR – MV	Mitral Valve	Heart rate	
HR – PV	Pulmonic Valve	Heart rate	
HR – TV IVCT	Tricuspid Valve Left Ventricle	Heart rate Left Ventricular Isovolumic	
IVRT	Left Ventricle	Contraction Time Left Ventricular Isovolumic	
INUI		Relaxation Time	

IVSd (2D)	Left Ventricle	Interventricular Septum Diastolic Thickness	Mode: 2D mode
IVSd (MM)	Left Ventricle	Interventricular Septum Diastolic Thickness	Mode: M mode
IVSs (2D)	Left Ventricle	Interventricular Septum Systolic Thickness	Mode: 2D mode
IVSs (MM)	Left Ventricle	Interventricular Septum Systolic Thickness	Mode: M mode
LA Dimension (2D)	Left Atrium	Left Atrium Antero-posterior Systolic Dimension	Mode: 2D mode
LA Dimension (MM)	Left Atrium	Left Atrium Antero-posterior Systolic Dimension	Mode: M mode
Lat A`Area	Left Ventricle	Area under LV A Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus
Lat Accel Time	Left Ventricle	Acceleration Time	Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus
Lat Decel Time	Left Ventricle	Deceleration Time	Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus
Lat E`Area	Left Ventricle	Area under LV E Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus
Lat IVCT	Left Ventricle	Left Ventricular Isovolumic Contraction Time	Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus
Lat IVRT	Left Ventricle	Left Ventricular Isovolumic Relaxation Time	Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus
Lat Peak A` Vel	Left Ventricle	LV Peak Diastolic Tissue Velocity During Atrial Systole	Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus
Lat Peak E`Vel	Left Ventricle	Left Ventricular Peak Early Diastolic Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus
Lat Peak S Vel	Left Ventricle	Left Ventricular Peak Systolic Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus
Late Dias Slope	Pulmonic Valve	Late Diastolic Slope	Mode: M mode
LPA Diam	Pulmonary artery	Left Pulmonary Artery Diameter	Mode: 2D mode
LV % Excursion – Avg	Left Ventricle	Left Ventricular Percent Excursion Average	Mode: 3D mode
LV % Excursion – SD	Left Ventricle	Left ventricular Percent Excursion Standard Deviation	Mode: 3D mode
LV dP/dt	Mitral Valve	Mitral Regurgitation dP/dt derived from Mitral Reg velocity	
LV Eject Time	Left Ventricle	Eject Time	Mode: M mode
LV Excursion – Avg	Left Ventricle	The Average Inward Motion of the Myocardium Across the Entire Left Ventricular Wall	Mode: 3D mode
LV Excursion – Max	Left Ventricle	The Maximum Inward Motion of the Myocardium Across the Entire Left Ventricular Wall	Mode: 3D mode
LV Excursion – Min	Left Ventricle	The Minimum Inward Motion of the Myocardium Across the Entire Left Ventricular Wall	Mode: 3D mode
LV Excursion – SD	Left Ventricle	The Standard Deviation of the Inward Motion of the Myocardium Across the Entire Left Ventricular Wall	Mode: 3D mode
LV Mass – End Dias	Left Ventricle	Left Ventricular Mass End Diastole	Mode: 3D mode, Phase: End Diastole,
			TraceType: Qlab Manual Trace
LV Mass – End Sys	Left Ventricle	Left Ventricular Mass End Systole	Mode: 3D mode, Phase: End Systole, TraceType: Qlab Manual Trace
	Left Ventricle		Mode: 3D mode, Phase: End Systole, TraceType: Qlab Manual Trace
LV Mass – End Sys LV Pre-Eject Period LVAd Sax Endo		Left Ventricular Mass End Systole Pre-Eject Time Left Ventricular Diastolic Area	Mode: 3D mode, Phase: End Systole, TraceType:
LV Pre-Eject Period	Left Ventricle Left Ventricle	Pre-Eject Time	Mode: 3D mode, Phase: End Systole, TraceType: Qlab Manual Trace Mode: M mode View: Parasternal short axis at the Papillary
LV Pre-Eject Period LVAd Sax Endo LVAd Sax Epi	Left Ventricle Left Ventricle Left Ventricle Left Ventricle	Pre-Eject Time Left Ventricular Diastolic Area Left Ventricle Epicardial Diastolic Area, psax pap view	Mode: 3D mode, Phase: End Systole, TraceType: Qlab Manual Trace Mode: M mode View: Parasternal short axis at the Papillary Muscle level View: Parasternal short axis at the Papillary Muscle level
LV Pre-Eject Period LVAd Sax Endo	Left Ventricle Left Ventricle Left Ventricle	Pre-Eject Time Left Ventricular Diastolic Area Left Ventricle Epicardial Diastolic	Mode: 3D mode, Phase: End Systole, TraceType: Qlab Manual Trace Mode: M mode View: Parasternal short axis at the Papillary Muscle level View: Parasternal short axis at the Papillary

		Diastolic Dimension	
LVIDd (MM)	Left Ventricle	Left Ventricle Internal End Diastolic Dimension	Mode: M mode
LVIDs (2D)	Left Ventricle	Left Ventricle Internal Systolic Dimension	Mode: 2D mode
LVIDs (MM)	Left Ventricle	Left Ventricle Internal Systolic Dimension	Mode: M mode
LVLd Apical	Left Ventricle	Left Ventricle diastolic major axis	
LVOT Accel Time	Left Ventricle	Acceleration Slope	Target: Left Ventricle Outflow Tract
LVOT Accel Time	Left Ventricle	Acceleration Time	Target: Left Ventricle Outflow Tract
LVOT Diam	Left Ventricle	Cardiovascular Orifice Diameter	Target: Left Ventricle Outflow Tract
LVOT Vmax	Left Ventricle	Peak Gradient	Target: Left Ventricle Outflow Tract
_VOT Vmax	Left Ventricle	Peak Velocity	Target: Left Ventricle Outflow Tract
	Left Ventricle	Mean Gradient	Target: Left Ventricle Outflow Tract
	Left Ventricle	Mean Velocity	Target: Left Ventricle Outflow Tract
LVOT VTI	Left Ventricle		Target: Left Ventricle Outflow Tract
LVPWd (2D)	Left Ventricle	Velocity Time Integral Left Ventricle Posterior Wall Diastolic Thickness	Mode: 2D mode
LVPWd (MM)	Left Ventricle	Left Ventricle Posterior Wall Diastolic Thickness	Mode: M mode
LVPWs (2D)	Left Ventricle	Left Ventricle Posterior Wall Systolic Thickness	Mode: 2D mode
LVPWs (MM)	Left Ventricle	Left Ventricle Posterior Wall Systolic Thickness	Mode: M mode
LVs (A/L)	Left Ventricle	Left Ventricular Systolic Area	Method: Single Plane Ellipse, Mode: 2D mode
LVs (A/L)	Left Ventricle	Left Ventricle systolic major axis	Method: Single Plane Ellipse, Mode: 2D mode
Med A` Area	Left Ventricle	Area under LV A Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med Accel Time	Left Ventricle	Acceleration Time	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med Decel Time	Left Ventricle	Deceleration Time	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med E`Area	Left Ventricle	Area under LV E Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med IVCT	Left Ventricle	Left Ventricular Isovolumic Contraction Time	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med IVRT	Left Ventricle	Left Ventricular Isovolumic Relaxation Time	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med Peak A`Vel	Left Ventricle	LV Peak Diastolic Tissue Velocity During Atrial Systole	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med Peak E`Vel	Left Ventricle	Left Ventricular Peak Early Diastolic Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med Peak S Vel	Left Ventricle	Left Ventricular Peak Systolic Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
MidPoint AP2 (AV)	Aortic Valve	Displacement of the midpoint between the left and right Aortic annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical two chamber
MidPoint AP2 (MV)	Mitral Valve	Displacement of the midpoint between the left and right mitral annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical two chamber
MidPoint AP2 (PV)	Pulmonic Valve	Displacement of the midpoint between the left and right Pulmonic annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical two chamber
MidPoint AP2 (TV)	Tricuspid Valve	Displacement of the midpoint between the left and right Tricuspid annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical two chamber
MidPoint AP4 (AV)	Aortic Valve	Displacement of the midpoint between the left and right Aortic annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical four chamber

MidPoint AP4 (MV)	Mitral Valve	Displacement of the midpoint between the left and right mitral annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical four chamber
MidPoint AP4 (PV)	Pulmonic Valve	Displacement of the midpoint between the left and right Pulmonic annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical four chamber
MidPoint AP4 (TV)	Tricuspid Valve	Displacement of the midpoint between the left and right Tricuspid annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical four chamber
MidPoint Norm AP2 (AV)	Aortic Valve	Normalized Displacement of the midpoint between the left and right Aortic annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical two chamber
MidPoint Norm AP2 (MV)	Mitral Valve	Normalized Displacement of the midpoint between the left and right mitral annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical two chamber
MidPoint Norm AP2 (PV)	Pulmonic Valve	Normalized Displacement of the midpoint between the left and right Pulmonic annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical two chamber
MidPoint Norm AP2 (TV)	Tricuspid Valve	Normalized Displacement of the midpoint between the left and right Tricuspid annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical two chamber
MidPoint Norm AP4 (AV)	Aortic Valve	Normalized Displacement of the midpoint between the left and right Aortic annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical four chamber
MidPoint Norm AP4 (MV)	Mitral Valve	Normalized Displacement of the midpoint between the left and right mitral annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical four chamber
MidPoint Norm AP4 (PV)	Pulmonic Valve	Normalized Displacement of the midpoint between the left and right Pulmonic annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical four chamber
MidPoint Norm AP4 (TV)	Tricuspid Valve	Normalized Displacement of the midpoint between the left and right Tricuspid annular hingepoints with respect to the apex	Mode: 2D mode, TraceType: Qlab Simple Method, View: Apical four chamber
MPA Diam	Pulmonary artery	Main Pulmonary Artery Diameter	Mode: 2D mode
MR Alias Vel	Mitral Valve	Alias Velocity	Direction: Regurgitant Flow
MR Radius	Mitral Valve	Flow Radius	Direction: Regurgitant Flow
MR Vmax	Mitral Valve	Peak Gradient	Direction: Regurgitant Flow
MR Vmax	Mitral Valve	Peak Velocity	Direction: Regurgitant Flow
MR VTI	Mitral Valve	Mean Gradient	Direction: Regurgitant Flow
MR VTI	Mitral Valve	Mean Velocity	Direction: Regurgitant Flow
MR VTI	Mitral Valve	Velocity Time Integral	Direction: Regurgitant Flow
MV A Dur	Mitral Valve	Mitral Valve A-Wave Duration	Mada: Mimada
MV A-C Interval MV Accel Time	Mitral Valve	Mitral Valve A-C Interval	Mode: M mode Direction: Antegrade Flow
MV Accel Time	Mitral Valve Mitral Valve	Acceleration Slope Acceleration Time	Direction: Antegrade Flow Direction: Antegrade Flow
MV Alias Vel	Mitral Valve	Alias Velocity	Direction: Antegrade Flow
MV Area (Planim)	Mitral Valve	Cardiovascular Orifice Area	Method: Planimetry, Mode: 2D mode
MV D-E Exc	Mitral Valve	Mitral Valve D-E Excursion	Mode: M mode
MV D-E Slope	Mitral Valve	Mitral Valve D-E Slope	Mode: M mode
MV Dec Slope	Mitral Valve	Deceleration Slope	Direction: Antegrade Flow
MV Decel Time	Mitral Valve	Deceleration Time	Direction: Antegrade Flow
MV Diam	Mitral Valve	Cardiovascular Orifice Diameter	Mode: 2D mode

MV E-F Slope	Mitral Valve	Mitral Valve E-F Slope by M-Mode	Mode: M mode
MV EPSS	Mitral Valve	Mitral Valve EPSS, E wave	Mode: M mode
MV P ½ t	Mitral Valve	Pressure Half-Time	
MV P ½ t	Mitral Valve	Pressure Half-Time Peak velocity	
MV Peak A Vel	Mitral Valve	Mitral Valve A-Wave Peak Velocity	Direction: Antegrade Flow
MV Peak E Vel	Mitral Valve	Mitral Valve E-Wave Peak Velocity	Direction: Antegrade Flow
MV Radius	Mitral Valve	Flow Radius	Direction: Antegrade Flow
MV Vmax	Mitral Valve	Peak Gradient	Direction: Antegrade Flow
MV Vmax	Mitral Valve	Peak Velocity	Direction: Antegrade Flow
MV VTI	Mitral Valve	Mean Gradient	Direction: Antegrade Flow
MV VTI	Mitral Valve	Mean Velocity	Direction: Antegrade Flow
MV VTI	Mitral Valve	Velocity Time Integral	Direction: Antegrade Flow
Nonplanar Angle	Mitral Valve	Mitral Valve Nonplanar Angle	Mode: 2D mode
PI End Dias Vel	Pulmonic Valve	Peak Gradient	Direction: Regurgitant Flow
PI End Dias Vel	Pulmonic Valve	End Diastolic Velocity	Direction: Regurgitant Flow
Post Leaflet	Mitral Valve	Mitral Valve Posterior Leaflet	Mode: 2D mode
		Length	
Post Leaflet Angle	Mitral Valve	Mitral Valve Posterior Leaflet Angle	Mode: 2D mode
Post Leaflets 3D	Mitral Valve	Mitral Valve Posterior Leaflets 3D	Mode: 3D mode
Area		Area	
Post Med Chord	Mitral Valve	Mitral Valve Posteromedial Chord	Mode: 2D mode
		Length	
Prolapse Height	Mitral Valve	Mitral Valve Prolapse Height	Mode: 2D mode
Prolapse Vol	Mitral Valve	Mitral Valve Prolapse Volume	
Pulm A Revs Dur	Pulmonary	Pulmonary Vein A-Wave Duration	
Tullin A Revs Dui	Venous Structure		
Pulm A Revs Vel	Pulmonary	Pulmonary Vein Atrial Contraction	
	Venous Structure	Reversal Peak Velocity	
Pulm Dias Vel	Pulmonary	Pulmonary Vein Diastolic Peak	
I diffi Dids Vei	Venous Structure	Velocity	
Pulm Sys Vel	Pulmonary	Pulmonary Vein Systolic Peak	
Fulliti Sys Ver	Venous Structure	Velocity	
PV Accel Time	Pulmonic Valve	Acceleration Slope	Direction: Antegrade Flow
PV Accel Time	Pulmonic Valve	Acceleration Time	Direction: Antegrade Flow
PV Accel Time PV Vmax	Pulmonic Valve		
		Peak Gradient	Direction: Antegrade Flow
PV Vmax	Pulmonic Valve	Peak Velocity	Direction: Antegrade Flow
PV VTI	Pulmonic Valve	Mean Gradient	Direction: Antegrade Flow
PV VTI	Pulmonic Valve	Mean Velocity	Direction: Antegrade Flow
PV VTI	Pulmonic Valve	Velocity Time Integral	Direction: Antegrade Flow
RA Pressure	Right Atrium	Right Atrium Systolic Pressure	
RPA Diam	Pulmonary artery	Right Pulmonary Artery Diameter	Mode: 2D mode
R-R time	Left Ventricle	Time between R-R waves	Mode: 3D mode
RV Eject Time	Right Ventricle	Eject Time	Mode: M mode
RV Pre-Eject Period	Right Ventricle	Pre-Eject Time	Mode: M mode
RVAWd (2D)	Right Ventricle	Right Ventricular Anterior Wall	Mode: 2D mode
		Diastolic Thickness	
RVAWd (MM)	Right Ventricle	Right Ventricular Anterior Wall	Mode: M mode
		Diastolic Thickness	
RVIDd (2D)	Right Ventricle	Right Ventricular Internal Diastolic	Mode: 2D mode
		Dimension	
RVIDd (MM)	Right Ventricle	Right Ventricular Internal Diastolic	Mode: M mode
. ,	-	Dimension	
RVOT Diam	Right Ventricle	Cardiovascular Orifice Diameter	Mode: 2D mode, Target: Right Ventricle Outflow
			Tract
RVOT Vmax	Right Ventricle	Peak Gradient	Target: Right Ventricle Outflow Tract
RVOT Vmax	Right Ventricle	Peak Velocity	Target: Right Ventricle Outflow Tract
RVOT VTI	Right Ventricle	Mean Gradient	Target: Right Ventricle Outflow Tract
RVOT VTI	Right Ventricle	Mean Velocity	Target: Right Ventricle Outflow Tract
RVOT VTI	Right Ventricle	Velocity Time Integral	Target: Right Ventricle Outflow Tract
SAX EDA SM	Left Ventricle	Left Ventricular Diastolic Area	Method: Qlab Simple Area Method, Single Plane,
SAN EDITORI			Mode: 2D mode, TraceType: Qlab Speckle
			Tracking Method, View: Parasternal short ax
SAX ESA SM	Left Ventricle	Left Ventricular Systolic Area	Method: Qlab Simple Area Method, Single Plane,
		Lere Ventricular Systeme Area	ricenser glab Simple Area Method, Single Flane,

	1		
			Mode: 2D mode, TraceType: Qlab Speckle
	L of the Allow the State		Tracking Method, View: Parasternal short ax
SAX FAC SM	Left Ventricle	Left Ventricular Fractional Area Change	Method: Qlab Simple Area Method, Single Plane, Mode: 2D mode, TraceType: Qlab Speckle
Stroke Vol	Left Ventricle	Stroke Volume	Tracking Method, View: Parasternal short ax Method: Qlab 3D Volume Data, Mode: 3D mode
Tenting Height	Mitral Valve	Mitral Valve Tenting Height	Mode: 2D mode
	Mitral Valve	Mitral Valve Tenting Volume	
Tenting Vol Time to Lat E`	Left Ventricle		Maday Tiagua Danalay Imaging, Tayagtu Latayal
		Time to LV E Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus
Time to Lat S	Left Ventricle	Time to LV S Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus
Time to Med E`	Left Ventricle	Time to LV E Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Time to Med S	Left Ventricle	Time to LV S Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Tmsv 12-DIF (%)	Left Ventricle	Nrm. Mx Dif of Time to min sys vol for 6 basal N 6 Mid segments	Mode: 3D mode
Tmsv 12-DIF (ms)	Left Ventricle	Max Dif of Time to min sys vol for 6 basal N 6 Mid segments	Mode: 3D mode
Tmsv 12-SD (%)	Left Ventricle	Nrm. SD of Time to min sys vol for 6 basal N 6 Mid segments	Mode: 3D mode
Tmsv 12-SD (ms)	Left Ventricle	SD of Time to min sys vol for 6 basal N 6 Mid segments	Mode: 3D mode
Tmsv 16-DIF (%)	Left Ventricle	Nrm. Mx Dif of Time to min sys vol for 16 wall segments	Mode: 3D mode
Tmsv 16-DIF (ms)	Left Ventricle	Max Dif of Time to min sys vol for 16 wall segments	Mode: 3D mode
Tmsv 16-SD (%)	Left Ventricle	Nrm. SD of Time to min sys vol for 16 wall segments	Mode: 3D mode
Tmsv 16-SD (ms)	Left Ventricle	SD of Time to min sys vol for 16 wall segments	Mode: 3D mode
Tmsv 6-DIF (%)	Left Ventricle	Nrm. Mx Dif of Time to min sys vol for 6 basal segments	Mode: 3D mode
Tmsv 6-DIF (ms)	Left Ventricle	Max Dif of Time to min sys vol for 6 basal segments	Mode: 3D mode
Tmsv 6-SD (%)	Left Ventricle	Nrm. SD of Time to min sys vol for 6 basal segments	Mode: 3D mode
Tmsv 6-SD (ms)	Left Ventricle	SD of Time to min sys vol for 6 basal segments	Mode: 3D mode
Tmsv S-L (%)	Left Ventricle	Nrm. Diff of Time to min sys vol btn basal sept N lat segments	Mode: 3D mode
Tmsv S-L (ms)	Left Ventricle	Dif of Time to min sys vol btn basal sept N lat segments	Mode: 3D mode
Tmsv S-P (%)	Left Ventricle	Nrm. Diff of Time to min sys vol btn basal sept N post segments	Mode: 3D mode
Tmsv S-P (ms)	Left Ventricle	Dif of Time to min sys vol btn basal sept N post segments	Mode: 3D mode
TR Alias Vel	Tricuspid Valve	Alias Velocity	Direction: Regurgitant Flow
TR Radius	Tricuspid Valve	Flow Radius	Direction: Regurgitant Flow
TR Vmax	Tricuspid Valve	Peak Gradient	Direction: Regurgitant Flow
TR Vmax	Tricuspid Valve	Peak Velocity	Direction: Regurgitant Flow
TR VTI	Tricuspid Valve	Mean Gradient	Direction: Regurgitant Flow
TR VTI	Tricuspid Valve	Mean Velocity	Direction: Regurgitant Flow
TR VTI	Tricuspid Valve	Velocity Time Integral	Direction: Regurgitant Flow
TV A-C Interval	Tricuspid Valve	Tricuspid Valve A-C Interval	Mode: M mode
TV Accel Time	Tricuspid Valve	Acceleration Slope	Direction: Antegrade Flow
TV Accel Time	Tricuspid Valve	Acceleration Time	Direction: Antegrade Flow
TV Alias Vel	Tricuspid Valve	Alias Velocity	Direction: Antegrade Flow
TV D-E Exc	Tricuspid Valve	Tricuspid Valve D-E Excursion	Mode: M mode
TV D-E Slope	Tricuspid Valve	Tricuspid Valve D-E Slope	Mode: M mode
TV Diam	Tricuspid Valve	Cardiovascular Orifice Diameter	Mode: 2D mode
TV E-F Slope	Tricuspid Valve	Tricuspid Valve E-F Slope	Mode: M mode
TV Peak A Vel	Tricuspid Valve	Tricuspid Valve A Wave Peak	Direction: Antegrade Flow

		Velocity	
TV Peak E Vel	Tricuspid Valve	Tricuspid Valve E Wave Peak	Direction: Antegrade Flow
		Velocity	
TV Radius	Tricuspid Valve	Flow Radius	Direction: Antegrade Flow
TV Vmax	Tricuspid Valve	Peak Gradient	Direction: Antegrade Flow
TV Vmax	Tricuspid Valve	Peak Velocity	Direction: Antegrade Flow
TV VTI	Tricuspid Valve	Mean Gradient	Direction: Antegrade Flow
TV VTI	Tricuspid Valve	Mean Velocity	Direction: Antegrade Flow
TV VTI	Tricuspid Valve	Velocity Time Integral	Direction: Antegrade Flow

# Application: Adult Echo, Calculations

AI ERO         Aortic Valve         Cardiovascular Orifice Area         Direction: Regurgitant Flow, Method: Proximal Isovelocity Surface Area           AI Flow Rate         Aortic Valve         Peak Instantaneous Flow Rate         Direction: Regurgitant Flow           AI Flow         Aortic Valve         Peak Instantaneous Flow Rate         Direction: Regurgitant Flow           AI Volume         Aortic Valve         Volume Flow         Direction: Regurgitant Flow           AVA(Vmax)         Aortic Valve         Cardiovascular Orifice Area         Method: Continuity Equation by Veak Velocity           AVA(VTI)         Aortic Valve         Cardiac Index         Method: Single Plane Flipse, Mode: 2D mode           CI (AD-Lifeth)         Left Ventricle         Cardiac Index         Method: Single Plane Flipse, Mode: 2D mode           CI (AAC)         Left Ventricle         Cardiac Index         Method: Method of Disks, Single Plane, Mode: 2D mode           CI (AAC)         Left Ventricle         Cardiac Index         Method: Method of Disks, Single Plane, Mode: 2D mode           CI (AAC)         Left Ventricle         Cardiac Index         Method: Teichholz, Mode: Mode: 2D mode           CI (MM-Teich)         Left Ventricle         Cardiac Output         Method: Teichholz, Mode: 2D mode           CI (MM-Teich)         Left Ventricle         Cardiac Output         Method: Teichholz, Mode: 2D mo	Label	Site	Concept	Modifiers
Arric Valve         Peak Instantaneous Flow Rate         Direction: Regurgitant Flow           At Fraction         Aortic Valve         Regurgitant Fraction         Direction: Regurgitant Flow           At Volume         Aortic Valve         Volume flow         Direction: Regurgitant Flow           AVAUmax)         Aortic Valve         Cardiovascular Orfice Area         Method: Continuity Equation by Peak Velocity           AVA(VTI)         Aortic Valve         Cardiovascular Orfice Area         Method: Continuity Equation by Velocity Time           Integral         Cir (2D-Cubed)         Left Ventricle         Cardiac Index         Method: Teicholay, Mode: 2D mode           Ci (AD-Teich)         Left Ventricle         Cardiac Index         Method: Teicholay, Mode: 2D mode           Ci (AAC)         Left Ventricle         Cardiac Index         Method: Method of Disks, Sipple Plane, Mode: 2D mode           Ci (AAC)         Left Ventricle         Cardiac Index         Method: Method of Disks, Sipple Plane, Mode: 2D mode           Ci (MH-Cubed)         Left Ventricle         Cardiac Index         Method: Cube Method, Mode: M mode           Ci (MH-Cubed)         Left Ventricle         Cardiac Output         Method: Cube Method, Mode: 2D mode           Ci (AAC)         Left Ventricle         Cardiac Output         Method: Cube Method, Mode: 2D mode           Ci (AAC) <td></td> <td></td> <td></td> <td></td>				
AI Flow Rate         Aortic Valve         Peak Instantaneous Flow Rate         Direction: Regurgitant Flow           AI Fraction         Aortic Valve         Volume Flow         Direction: Regurgitant Flow           AI Volume         Aortic Valve         Cardiovascular Orifice Area         Method: Continuity Equation by Velocity Time Integral           CI (2D-Cubed)         Left Ventricle         Cardiovascular Orifice Area         Method: Continuity Equation by Velocity Time Integral           CI (2D-Cubed)         Left Ventricle         Cardia Cardia: Index         Method: Single Plane Elipse, Mode: 2D mode           CI (ALC)         Left Ventricle         Cardia: Index         Method: Single Plane Elipse, Mode: 2D mode           CI (AAC)         Left Ventricle         Cardia: Index         Method: Method of Disks, Single Plane, Mode: 2D mode           CI (AAC)         Left Ventricle         Cardia: Index         Method: Method of Disks, Single Plane, Mode: 2D mode           CI (AAC)         Left Ventricle         Cardia: Index         Method: Teichnicz, Mode: Mode: 2D mode           CI (MM-Cubed)         Left Ventricle         Cardia: Output         Method: Teichnicz, Mode: 2D mode           CI (MM-Teich)         Left Ventricle         Cardia: Output         Method: Teichnicz, Mode: 2D mode           CO (2D-Cubed)         Left Ventricle         Cardia: Output         Method: Teichnicz, M				
Air Fraction         Aortic Valve         Regurgitant Fraction         Direction: Regurgitant Flow           Al Volume         Aortic Valve         Cardiovascular Orifice Area         Method: Continuity Equation by Peak Velocity           AVA(VTI)         Aortic Valve         Cardiovascular Orifice Area         Method: Continuity Equation by Velocity Time           Integral         Integral         Method: Continuity Equation by Velocity Time           IC (2D-Cubed)         Left Ventricle         Cardiac Index         Method: Teichholz, Mode: 2D mode           C1 (A2C)         Left Ventricle         Cardiac Index         Method: Method: Method Sks, Single Plane, Mode: 2D mode           C1 (A2C)         Left Ventricle         Cardiac Index         Method: Method: Method Sks, Single Plane, Mode: 2D mode           C1 (A4C)         Left Ventricle         Cardiac Index         Method: Method Sks, Single Plane, Mode: 2D mode           C1 (A4C)         Left Ventricle         Cardiac Index         Method: Sks, Single Plane, Mode: 2D mode           C1 (MM-Cubed)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           C0 (A2C)         Left Ventricle         Cardiac Output         Method: Single Plane Hode: 2D mode           C0 (A2C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode </td <td>AI Flow Rate</td> <td>Aortic Valve</td> <td>Peak Instantaneous Flow Rate</td> <td></td>	AI Flow Rate	Aortic Valve	Peak Instantaneous Flow Rate	
Al Volume         Aortic Valve         Volume Flow         Direction: Regurgitant Flow           AV4(Vrax)         Aortic Valve         Cardiovascular Orifice Area         Method: Continuity Equation by Velocity Time Integral           CI (2D-Cubed)         Left Ventricle         Cardiovascular Orifice Area         Method: Continuity Equation by Velocity Time Integral           CI (2D-Cubed)         Left Ventricle         Cardiac Index         Method: Single Plane Ellipse, Mode: 2D mode           CI (AL)         Left Ventricle         Cardiac Index         Method: Single Plane Ellipse, Mode: 2D mode           CI (ALC)         Left Ventricle         Cardiac Index         Method: Method of Disks, Single Plane, Mode: 2D mode           CI (AAC)         Left Ventricle         Cardiac Index         Method: Method of Disks, Single Plane, Mode: 2D mode           CI (APC)         Left Ventricle         Cardiac Index         Method: Method of Disks, Single Plane, Mode: 2D mode           CI (MM-Cubed)         Left Ventricle         Cardiac Index         Method: Teichnicz, Mode: Mode: 2D mode           CO (2D-Cubed)         Left Ventricle         Cardiac Output         Method: Teichnicz, Mode: Mode: 2D mode           CO (4D)         Left Ventricle         Cardiac Output         Method: Teichnicz, Mode: 2D mode           CI (MM-Teich)         Left Ventricle         Cardiac Output         Method: Teichni				
AVA(Vmax)         Aortic Valve         Cardiovascular Orifice Area         Method: Continuity Equation by Peak Velocity           AVA(VTI)         Aortic Valve         Cardiovascular Orifice Area         Method: Continuity Equation by Velocity Time Integral           C1 (2D-Cubed)         Left Ventricle         Cardiac Index         Method: Cube Method, Mode: 2D mode           C1 (ALC)         Left Ventricle         Cardiac Index         Method: Single Plane Ellipse, Mode: 2D mode           C1 (A2C)         Left Ventricle         Cardiac Index         Method: Method of Disks, Single Plane, Mode: 2D mode           C1 (A2C)         Left Ventricle         Cardiac Index         Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber           C1 (A4C)         Left Ventricle         Cardiac Index         Method: Sube Method, Mode: 2D mode, View: Apical four chamber           C1 (MM-Cubed)         Left Ventricle         Cardiac Index         Method: Sube Method, Mode: 2D mode           C2 (D2D-Teich)         Left Ventricle         Cardiac Output         Method: Sube Method, Mode: 2D mode           C0 (A2C)         Left Ventricle         Cardiac Output         Method: Single Plane, Mode: 2D mode           C0 (A2C)         Left Ventricle         Cardiac Output         Method: Single Plane, Mode: 2D mode           C0 (A2C)         Left Ventricle         Cardiac Output <td< td=""><td></td><td></td><td>Volume Flow</td><td></td></td<>			Volume Flow	
AVA(VTI)         Aortic Valve         Cardiovascular Onfice Area         Method: Continuity Equation by Velocity Time Integral           CI (2D-Cubed)         Left Ventricle         Cardiac Index         Method: Teichholz, Mode: 2D mode           CI (2D-Teich)         Left Ventricle         Cardiac Index         Method: Teichholz, Mode: 2D mode           CI (ALC)         Left Ventricle         Cardiac Index         Method: Single Plane, Mode: 2D mode           CI (ACC)         Left Ventricle         Cardiac Index         Method: Method of Disks, Single Plane, Mode: 2D mode           CI (AAC)         Left Ventricle         Cardiac Index         Method: Method of Disks, Single Plane, Mode: 2D mode           CI (AAC)         Left Ventricle         Cardiac Index         Method: Method of Disks, Biplane, Mode: 2D mode           CI (MM-Cubed)         Left Ventricle         Cardiac Index         Method: Teichholz, Mode: M mode           CO (2D-Cubed)         Left Ventricle         Cardiac Output         Method: Teichholz, Mode: 2D mode           CO (AAC)         Left Ventricle         Cardiac Output         Method: Single Plane, Mode: 2D mode           CO (AAC)         Left Ventricle         Cardiac Output         Method: Single Plane, Mode: 2D mode           CO (AAC)         Left Ventricle         Cardiac Output         Method: Single Plane, Mode: 2D mode           CO (A				Method: Continuity Equation by Peak Velocity
Cit (2D-Cubed)         Left Ventricle         Cardiac Index         Method: Cube Method, Mode: 2D mode           Cit (2D-Teich)         Left Ventricle         Cardiac Index         Method: Teichholz, Mode: 2D mode           Cit (AL)         Left Ventricle         Cardiac Index         Method: Single Piane Bilipse, Mode: 2D mode           Cit (AZC)         Left Ventricle         Cardiac Index         Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber           Cit (A4C)         Left Ventricle         Cardiac Index         Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber           Cit (BP)         Left Ventricle         Cardiac Index         Method: Teichholz, Mode: M mode           Cit (MM-Cubed)         Left Ventricle         Cardiac Index         Method: Cube Method, Mode: 2D mode           Cit (MM-Teich)         Left Ventricle         Cardiac Output         Method: Teichholz, Mode: 2D mode           Cot (2D-Cubed)         Left Ventricle         Cardiac Output         Method: Teichholz, Mode: 2D mode           Cot (2D-Cubed)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           Cot (2D-Cubed)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           Cot (2D-Cubed)         Left Ventricle         Cardiac Output				
CI (2D-Cubed)       Left Ventricle       Cardiac Index       Method: Cube Method, Mode: 2D mode         CI (2D-Teich)       Left Ventricle       Cardiac Index       Method: Single Plane Ellipse, Mode: 2D mode         CI (A/L)       Left Ventricle       Cardiac Index       Method: Single Plane Ellipse, Mode: 2D mode         CI (A4C)       Left Ventricle       Cardiac Index       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber         CI (A4C)       Left Ventricle       Cardiac Index       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber         CI (BP)       Left Ventricle       Cardiac Index       Method: Cube Method, Mode: Mode         CI (MM-Cubed)       Left Ventricle       Cardiac Index       Method: Cube Method, Mode: Mode         CO (AD-Cubed)       Left Ventricle       Cardiac Output       Method: Cube Method, Mode: 2D mode         CO (2D-Cubed)       Left Ventricle       Cardiac Output       Method: Single Plane Ellipse, Mode: 2D mode         CO (AAC)       Left Ventricle       Cardiac Output       Method: Method of Disks, Single Plane, Mode: 2D         CO (AAC)       Left Ventricle       Cardiac Output       Method: Single Plane Ellipse, Mode: 2D mode         CO (AAC)       Left Ventricle       Cardiac Output       Method: Method of Disks, Single Plane, Mode: 2D         CO (AAC)				
CI (2D-Teich)       Left Ventricle       Cardiac Index       Method: Single Plane Ellipse, Mode: 2D mode         CI (A/L)       Left Ventricle       Cardiac Index       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber         CI (A2C)       Left Ventricle       Cardiac Index       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber         CI (A4C)       Left Ventricle       Cardiac Index       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber         CI (BP)       Left Ventricle       Cardiac Index       Method: Method of Disks, Biplane, Mode: 2D mode         CI (MM-Cubed)       Left Ventricle       Cardiac Index       Method: Teichholz, Mode: Mode: 2D mode         CO (2D-Cubed)       Left Ventricle       Cardiac Output       Method: Teichholz, Mode: 2D mode         CO (2D-Teich)       Left Ventricle       Cardiac Output       Method: Single Plane, Mode: 2D mode         CO (A4C)       Left Ventricle       Cardiac Output       Method: Method of Disks, Single Plane, Mode: 2D mode         CO (A4C)       Left Ventricle       Cardiac Output       Method: Method of Disks, Single Plane, Mode: 2D mode         CO (A4C)       Left Ventricle       Cardiac Output       Method: Method of Disks, Single Plane, Mode: 2D mode         CO (A4C)       Left Ventricle       Cardiac Output       Method: Method of Disk	CI (2D-Cubed)	Left Ventricle	Cardiac Index	
CI (A/L)       Left Ventricle       Cardiac Index       Method: Single Plane Ellipse, Mode: 2D mode         CI (A2C)       Left Ventricle       Cardiac Index       Method: Method of Disks, Single Plane, Mode: 2D         CI (A4C)       Left Ventricle       Cardiac Index       Method: Method of Disks, Single Plane, Mode: 2D         CI (BP)       Left Ventricle       Cardiac Index       Method: Method of Disks, Single Plane, Mode: 2D         CI (MM-Cubed)       Left Ventricle       Cardiac Index       Method: Cube Method, Mode: M mode         CI (MM-Cubed)       Left Ventricle       Cardiac Output       Method: Cube Method, Mode: 2D mode         CO (2D-Cubed)       Left Ventricle       Cardiac Output       Method: Teichholz, Mode: Mode: 2D mode         CO (A/L)       Left Ventricle       Cardiac Output       Method: Single Plane Ellipse, Mode: 2D mode         CO (A/C)       Left Ventricle       Cardiac Output       Method: Single Plane, Mode: 2D mode         CO (A/C)       Left Ventricle       Cardiac Output       Method: Method of Disks, Single Plane, Mode: 2D mode         CO (A/C)       Left Ventricle       Cardiac Output       Method: Method of Disks, Single Plane, Mode: 2D mode         CO (A/C)       Left Ventricle       Cardiac Output       Method: Method of Disks, Single Plane, Mode: 2D mode         CO (C (A/C)       Left Ventricle <t< td=""><td></td><td></td><td></td><td></td></t<>				
CI (A2C)         Left Ventricle         Cardiac Index         Method: Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber           CI (A4C)         Left Ventricle         Cardiac Index         Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber           CI (BP)         Left Ventricle         Cardiac Index         Method: Method of Disks, Single Plane, Mode: 2D mode           CI (MM-Cubed)         Left Ventricle         Cardiac Index         Method: Cube Method, Mode: 2D mode           CO (2D-Cubed)         Left Ventricle         Cardiac Output         Method: Cube Method, Mode: 2D mode           CO (2D-Cubed)         Left Ventricle         Cardiac Output         Method: Single Plane Ellipse, Mode: 2D mode           CO (2D-Cubed)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (A/C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (A4C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (BP)         Left Ventricle         Cardiac Output         Method: Method of Disks, Biplane, Mode: 2D mode           CO (MV-Cubed)         Left Ventricle         Cardiac Output         Target: Left Ventricle Outflow Tract           CO (MVOT)         Right Ventric				
CI (A4C)Left VentricleCardiac Indexmode, View: Apical two chamberCI (BP)Left VentricleCardiac IndexMethod: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamberCI (BP)Left VentricleCardiac IndexMethod: Method of Disks, Biplane, Mode: 2D modeCI (MM-Cubed)Left VentricleCardiac IndexMethod: Cube Method, Mode: M modeCO (2D-Cubed)Left VentricleCardiac OutputMethod: Cube Method, Mode: 2D modeCO (2D-Cubed)Left VentricleCardiac OutputMethod: Teichholz, Mode: 2D modeCO (A/L)Left VentricleCardiac OutputMethod: Teichholz, Mode: 2D modeCO (A/L)Left VentricleCardiac OutputMethod: Method of Disks, Single Plane, Mode: 2D mode, View: Apical fwor chamberCO (A/C)Left VentricleCardiac OutputMethod: Method of Disks, Single Plane, Mode: 2D mode, View: Apical fwor chamberCO (ACC)Left VentricleCardiac OutputMethod: Method of Disks, Single Plane, Mode: 2D mode, View: Apical fwor chamberCO (LVOT)Left VentricleCardiac OutputMethod: Cube Method, Mode: M modeCO (LVOT)Left VentricleCardiac OutputMethod: Cube Method, Mode: M modeCO (MV-Cubed)Left VentricleCardiac OutputMethod: Teichholz, Mode: M modeCO (MV-Cubed)Left VentricleCardiac OutputMethod: Teichholz, Mode: M modeCO (MV-Cubed)Left VentricleCardiac OutputTarget: Left Ventricle Outflow TractCO (MV-Cubed)Left VentricleCardiac OutputTarget: Netho				
CI (A4C)         Left Ventricle         Cardiac Index         Method: Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber           CI (BP)         Left Ventricle         Cardiac Index         Method: Method of Disks, Biplane, Mode: 2D mode           CI (MM-Cubed)         Left Ventricle         Cardiac Index         Method: Teichholz, Mode: M mode           CO (2D-Cubed)         Left Ventricle         Cardiac Output         Method: Teichholz, Mode: 2D mode           CO (2D-Teich)         Left Ventricle         Cardiac Output         Method: Single Plane Ellipse, Mode: 2D mode           CO (2D-Teich)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (2D-Teich)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (2D-Teich)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (A4C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (A4C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Biplane, Mode: 2D mode           CO (MVOT)         Left Ventricle         Cardiac Output         Target: Left Ventricle Outflow Tract           CO (MVOT)         Left Ventricle         Cardiac O	- ( -)			
CI (BP)Left VentricleCardiac IndexMethod: Nethod of Disks, Biplane, Mode: 2D modeCI (MM-Cubed)Left VentricleCardiac IndexMethod: Cube Method, Mode: M modeCI (MM-Teich)Left VentricleCardiac IndexMethod: Cube Method, Mode: 2D modeCO (2D-Cubed)Left VentricleCardiac OutputMethod: Single Plane Ellipse, Mode: 2D modeCO (AL)Left VentricleCardiac OutputMethod: Single Plane Ellipse, Mode: 2D modeCO (AL)Left VentricleCardiac OutputMethod: Single Plane Ellipse, Mode: 2D modeCO (AC)Left VentricleCardiac OutputMethod: Single Plane Ellipse, Mode: 2D modeCO (ACC)Left VentricleCardiac OutputMethod: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamberCO (A4C)Left VentricleCardiac OutputMethod: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamberCO (BP)Left VentricleCardiac OutputMethod: Method of Disks, Biplane, Mode: 2D modeCO (MVT)Left VentricleCardiac OutputTarget: Left Ventricle Outflow TractCO (MVT)Left VentricleCardiac OutputMethod: Teichholz, Mode: M modeCO (MVT)Right VentricleCardiac OutputTarget: Right Ventricle Outflow TractCO (NV)Mitral ValveCardiac OutputTarget: Right Ventricle Outflow TractCO (MVT)Right VentricleCardiac OutputTarget: Right Ventricle Outflow TractCO (NV)Mitral AnnulusCardiac OutputTarget: Right Ventricle Outflow TractCO (NV)	CI (A4C)	Left Ventricle	Cardiac Index	
CI (BP)         Left Ventricle         Cardiac Index         Method: Method of Disks, Biplane, Mode: 2D mode           CI (MM-Cubed)         Left Ventricle         Cardiac Index         Method: Cube Method, Mode: M mode           CI (MM-Teich)         Left Ventricle         Cardiac Index         Method: Cube Method, Mode: 2D mode           CO (2D-Cubed)         Left Ventricle         Cardiac Output         Method: Cube Method, Mode: 2D mode           CO (2D-Teich)         Left Ventricle         Cardiac Output         Method: Single Plane Ellipse, Mode: 2D mode           CO (A/L)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (A/C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (A4C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (A4C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (AVC)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (MVT)         Left Ventricle         Cardiac Output         Method: Cube Method, Mode: Mode: Ande           CO (MM-Teich)         Left Ventricle         Cardiac Output         Method: Teichholz, Mode: Mo				mode, View: Apical four chamber
CI (MM-Cubed)Left VentricleCardiac IndexMethod: Cube Method, Mode: M modeCI (MM-Teich)Left VentricleCardiac IndexMethod: Cube Method, Mode: 2D modeCO (2D-Cubed)Left VentricleCardiac OutputMethod: Teichholz, Mode: 2D modeCO (2D-Cubed)Left VentricleCardiac OutputMethod: Single Plane Ellipse, Mode: 2D modeCO (A/L)Left VentricleCardiac OutputMethod: Single Plane Ellipse, Mode: 2D modeCO (A/L)Left VentricleCardiac OutputMethod: Method of Disks, Single Plane, Mode: 2DCO (A4C)Left VentricleCardiac OutputMethod: Method of Disks, Single Plane, Mode: 2DCO (A4C)Left VentricleCardiac OutputMethod: Method of Disks, Single Plane, Mode: 2DCO (BP)Left VentricleCardiac OutputMethod: Method of Disks, Biplane, Mode: 2DCO (LVOT)Left VentricleCardiac OutputTarget: Left Ventricle Outflow TractCO (MM-Cubed)Left VentricleCardiac OutputTarget: Left Ventricle Outflow TractCO (MM-Cubed)Left VentricleCardiac OutputTarget: Right Ventricle Outflow TractCO (NV)Nitral ValveCardiac OutputTarget: Right Ventricle Outflow TractCO (NV)Nitral ValveCardiac OutputTarget: Right Ventricle Outflow TractCO (NV)Right VentricleCardiac OutputTarget: Right Ventricle Outflow TractCO (NV)Right VentricleRatio of MV Peak Velocity to LVTarget: Right Ventricle Outflow TractCO (TV)Tricuspid ValveCardiac OutputTarget:	CI (BP)	Left Ventricle	Cardiac Index	Method: Method of Disks, Biplane, Mode: 2D
CI (MM-Teich)       Left Ventricle       Cardiac Index       Method: Teichholz, Mode: M mode         CO (2D-Cubed)       Left Ventricle       Cardiac Output       Method: Cube Method, Mode: 2D mode         CO (2D-Cubed)       Left Ventricle       Cardiac Output       Method: Teichholz, Mode: 2D mode         CO (A/L)       Left Ventricle       Cardiac Output       Method: Single Plane Ellipse, Mode: 2D mode         CO (A2C)       Left Ventricle       Cardiac Output       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber         CO (A4C)       Left Ventricle       Cardiac Output       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber         CO (BP)       Left Ventricle       Cardiac Output       Method: Method of Disks, Biplane, Mode: 2D mode         CO (LVOT)       Left Ventricle       Cardiac Output       Method: Method of Disks, Biplane, Mode: 2D mode         CO (MM-Teich)       Left Ventricle       Cardiac Output       Method: Cube Method, Mode: M mode         CO (MV)       Left Ventricle       Cardiac Output       Method: Cube Method, Mode: M mode         CO (MV)       Mitral Valve       Cardiac Output       Method: Cube Method, Mode: M mode         CO (MV)       Mitral Valve       Cardiac Output       Target: Left Ventricle Outflow Tract         CO (MV)       Right Ventricle				
CO (2D-Cubed)         Left Ventricle         Cardiac Output         Method: Cube Method, Mode: 2D mode           CO (2D-Teich)         Left Ventricle         Cardiac Output         Method: Teichholz, Mode: 2D mode           CO (A/L)         Left Ventricle         Cardiac Output         Method: Single Plane Ellipse, Mode: 2D mode           CO (A2C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber           CO (A4C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber           CO (A4C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (BP)         Left Ventricle         Cardiac Output         Method: Method of Disks, Biplane, Mode: 2D mode           CO (LVOT)         Left Ventricle         Cardiac Output         Method: Cube Method, Mode: M mode           CO (MM-Cubed)         Left Ventricle         Cardiac Output         Method: Teichholz, Mode: M mode           CO (MV)         Mitral Valve         Cardiac Output         Target: Right Ventricle Outflow Tract           CO (TV)         Tricuspid Valve         Cardiac Output         Target: Right Ventricle Outflow Tract           CO (TV)         Tricuspid Valve         Cardiac Output         Target: Right Ventricl	CI (MM-Cubed)	Left Ventricle	Cardiac Index	Method: Cube Method, Mode: M mode
CO (2D-Cubed)         Left Ventricle         Cardiac Output         Method: Cube Method, Mode: 2D mode           CO (2D-Teich)         Left Ventricle         Cardiac Output         Method: Teichholz, Mode: 2D mode           CO (A/L)         Left Ventricle         Cardiac Output         Method: Single Plane Ellipse, Mode: 2D mode           CO (A/L)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber           CO (A4C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber           CO (A4C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D mode           CO (BP)         Left Ventricle         Cardiac Output         Method: Method of Disks, Biplane, Mode: 2D mode           CO (LVOT)         Left Ventricle         Cardiac Output         Method: Submethod: Method, Mode: M mode           CO (MM-Cubed)         Left Ventricle         Cardiac Output         Method: Teichholz, Mode: M mode           CO (MV)         Mitral Valve         Cardiac Output         Method: Teichholz, Mode: M mode           CO (TV)         Tricuspid Valve         Cardiac Output         Target: Right Ventricle Outflow Tract           CO (TV)         Tricuspid Valve         Cardiac Output         Target: Right Ventricl	CI (MM-Teich)	Left Ventricle	Cardiac Index	Method: Teichholz, Mode: M mode
CO (A/L)         Left Ventricle         Cardiac Output         Method: Single Plane Ellipse, Mode: 2D mode           CO (A2C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D           CO (A4C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D           CO (A4C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D           CO (BP)         Left Ventricle         Cardiac Output         Method: Method of Disks, Biplane, Mode: 2D           CO (LVOT)         Left Ventricle         Cardiac Output         Target: Left Ventricle Outflow Tract           CO (MM-Cubed)         Left Ventricle         Cardiac Output         Method: Cube Method, Mode: M mode           CO (MM-Teich)         Left Ventricle         Cardiac Output         Method: Teichholz, Mode: M mode           CO (MV)         Mitral Valve         Cardiac Output         Target: Right Ventricle Outflow Tract           CO (TV)         Tricuspid Valve         Cardiac Output         Target: Right Ventricle Outflow Tract           CO (TV)         Tricuspid Ventricle         Cardiac Output         Target: Right Ventricle Outflow Tract           CO (TV)         Tricuspid Ventricle         Cardiac Output         Target: Right Ventricle Outflow Tract           CO (TV) <td>CO (2D-Cubed)</td> <td>Left Ventricle</td> <td>Cardiac Output</td> <td></td>	CO (2D-Cubed)	Left Ventricle	Cardiac Output	
CO (A/L)         Left Ventricle         Cardiac Output         Method: Single Plane Ellipse, Mode: 2D mode           CO (A2C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D           CO (A4C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D           CO (A4C)         Left Ventricle         Cardiac Output         Method: Method of Disks, Single Plane, Mode: 2D           CO (BP)         Left Ventricle         Cardiac Output         Method: Method of Disks, Biplane, Mode: 2D           CO (LVOT)         Left Ventricle         Cardiac Output         Target: Left Ventricle Outflow Tract           CO (MM-Cubed)         Left Ventricle         Cardiac Output         Method: Cube Method, Mode: M mode           CO (MM-Teich)         Left Ventricle         Cardiac Output         Method: Teichholz, Mode: M mode           CO (MV)         Mitral Valve         Cardiac Output         Target: Right Ventricle Outflow Tract           CO (TV)         Tricuspid Valve         Cardiac Output         Target: Right Ventricle Outflow Tract           CO (TV)         Tricuspid Ventricle         Cardiac Output         Target: Right Ventricle Outflow Tract           CO (TV)         Tricuspid Ventricle         Cardiac Output         Target: Right Ventricle Outflow Tract           CO (TV) <td>CO (2D-Teich)</td> <td>Left Ventricle</td> <td>Cardiac Output</td> <td>Method: Teichholz, Mode: 2D mode</td>	CO (2D-Teich)	Left Ventricle	Cardiac Output	Method: Teichholz, Mode: 2D mode
CO (A2C)Left VentricleCardiac OutputMethod: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamberCO (A4C)Left VentricleCardiac OutputMethod: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamberCO (BP)Left VentricleCardiac OutputMethod: Method of Disks, Biplane, Mode: 2D modeCO (LVOT)Left VentricleCardiac OutputMethod: Method of Disks, Biplane, Mode: 2D modeCO (LVOT)Left VentricleCardiac OutputTarget: Left Ventricle Outflow TractCO (MM-Cubed)Left VentricleCardiac OutputMethod: Teichholz, Mode: M modeCO (MM-Cibed)Left VentricleCardiac OutputMethod: Teichholz, Mode: M modeCO (MV)Mitral ValveCardiac OutputTarget: Right Ventricle Outflow TractCO (RVOT)Right VentricleCardiac OutputTarget: Right Ventricle Outflow TractCO (TV)Tricuspid ValveCardiac OutputTarget: Right Ventricle Outflow TractCO (TV)Ritor of MV Peak Velocity to LV Peak Tissue Velocity Te-WaveTarget: Lateral Mitral AnnulusE/E' LateralLeft VentricleRatio of MV Peak Velocity to LV Peak Tissue Velocity E-WaveMode: Tissue Doppler Imaging, Target: LateralE'/A' MedialLeft VentricleRatio of LV E to A Tissue Velocity VolumeMode: Tissue Doppler Imaging, Target: Medial Mitral AnnulusEDV (2D-Cubed)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Cube Method, Mode: 2D modeEDV (A/L)Left VentricleLeft Ventricular End Diastolic Volume		Left Ventricle		
CO (A4C)Left VentricleCardiac Outputmode, View: Apical two chamberCO (A4C)Left VentricleCardiac OutputMethod: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamberCO (BP)Left VentricleCardiac OutputMethod: Method of Disks, Biplane, Mode: 2D modeCO (LVOT)Left VentricleCardiac OutputTarget: Left Ventricle Outflow TractCO (MM-Cubed)Left VentricleCardiac OutputMethod: Teichholz, Mode: M modeCO (MM-Teich)Left VentricleCardiac OutputMethod: Teichholz, Mode: M modeCO (MV)Mitral ValveCardiac OutputTarget: Left Ventricle Outflow TractCO (TV)Right VentricleCardiac OutputTarget: Right Ventricle Outflow TractCO (TV)Tricuspid ValveCardiac OutputTarget: Lateral Mitral AnnulusE/E LateralLeft VentricleRatio of MV Peak Velocity to LV Peak Tissue Velocity E-WaveTarget: Lateral Mitral AnnulusE'/A` LateralLeft VentricleRatio of LV E to A Tissue VelocityMode: Tissue Doppler Imaging, Target: Lateral Mitral AnnulusE'/A` MedialLeft VentricleLeft Ventricular End Diastolic VolumeMethod: Cube Method, Mode: 2D modeEDV (2D-Cubed)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Teichholz, Mode: 2D modeEDV (A/L)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Single Plane Ellipse, Mode: 2D modeEDV (BP)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Method of Disks, Biplane, Mode: 2D mode<		Left Ventricle		
CO (A4C)Left VentricleCardiac OutputMethod: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamberCO (BP)Left VentricleCardiac OutputMethod: Method of Disks, Biplane, Mode: 2D modeCO (LVOT)Left VentricleCardiac OutputTarget: Left Ventricle Outflow TractCO (MM-Cubed)Left VentricleCardiac OutputMethod: Cube Method, Mode: M modeCO (MM-Teich)Left VentricleCardiac OutputMethod: Teichholz, Mode: M modeCO (MV)Mitral ValveCardiac OutputTarget: Right Ventricle Outflow TractCO (RVOT)Right VentricleCardiac OutputTarget: Right Ventricle Outflow TractCO (TV)Tricuspid ValveCardiac OutputTarget: Right Ventricle Outflow TractE/E` MedialLeft VentricleRatio of MV Peak Velocity to LV Peak Tissue Velocity E-WaveTarget: Right Mitral AnnulusE'/A` LateralLeft VentricleRatio of LV E to A Tissue VelocityMode: Tissue Doppler Imaging, Target: Lateral Mitral AnnulusE'/A` MedialLeft VentricleLeft Ventricular End Diastolic VolumeMethod: Cube Method, Mode: 2D modeEDV (2D-Cubed)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Teichholz, Mode: 2D modeEDV (A/L)Left VentricleLeft Ventr				
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Peak Tissue Velocity E-WaveE/E` MedialLeft VentricleRatio of MV Peak Velocity to LV Peak Tissue Velocity E-WaveTarget: Medial Mitral AnnulusE`/A` LateralLeft VentricleRatio of LV E to A Tissue VelocityMode: Tissue Doppler Imaging, Target: Lateral Mitral AnnulusE`/A` MedialLeft VentricleRatio of LV E to A Tissue VelocityMode: Tissue Doppler Imaging, Target: Medial Mitral AnnulusE`/A` MedialLeft VentricleRatio of LV E to A Tissue VelocityMode: Tissue Doppler Imaging, Target: Medial Mitral AnnulusEDV (2D-Cubed)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Cube Method, Mode: 2D modeEDV (2D-Teich)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Teichholz, Mode: 2D modeEDV (A/L)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Single Plane Ellipse, Mode: 2D modeEDV (BP)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Method of Disks, Biplane, Mode: 2D mode				
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E`/A` LateralLeft VentricleRatio of LV E to A Tissue VelocityMode: Tissue Doppler Imaging, Target: Lateral Mitral AnnulusE`/A` MedialLeft VentricleRatio of LV E to A Tissue VelocityMode: Tissue Doppler Imaging, Target: Medial Mitral AnnulusEDV (2D-Cubed)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Cube Method, Mode: 2D modeEDV (2D-Teich)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Teichholz, Mode: 2D modeEDV (A/L)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Single Plane Ellipse, Mode: 2D modeEDV (BP)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Single Plane Ellipse, Mode: 2D mode	E/E` Medial	Left Ventricle	Ratio of MV Peak Velocity to LV	Target: Medial Mitral Annulus
E`/A` MedialLeft VentricleRatio of LV E to A Tissue VelocityMode: Tissue Doppler Imaging, Target: Medial Mitral AnnulusEDV (2D-Cubed)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Cube Method, Mode: 2D modeEDV (2D-Teich)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Teichholz, Mode: 2D modeEDV (A/L)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Single Plane Ellipse, Mode: 2D modeEDV (BP)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Single Plane Ellipse, Mode: 2D mode	E`/A` Lateral	Left Ventricle		
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EDV (2D-Teich)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Teichholz, Mode: 2D modeEDV (A/L)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Single Plane Ellipse, Mode: 2D modeEDV (BP)Left VentricleLeft Ventricular End Diastolic VolumeMethod: Method of Disks, Biplane, Mode: 2D mode	EDV (2D-Cubed)	Left Ventricle		
Volume           EDV (A/L)         Left Ventricle         Left Ventricular End Diastolic Volume         Method: Single Plane Ellipse, Mode: 2D mode           EDV (BP)         Left Ventricle         Left Ventricular End Diastolic Volume         Method: Method of Disks, Biplane, Mode: 2D mode				
Volume           EDV (BP)         Left Ventricle         Left Ventricular End Diastolic Volume         Method: Method of Disks, Biplane, Mode: 2D mode	EDV (2D-Teich)	Left Ventricle		
EDV (BP) Left Ventricle Left Ventricular End Diastolic Volume Method: Method of Disks, Biplane, Mode: 2D mode	EDV (A/L)	Left Ventricle		Method: Single Plane Ellipse, Mode: 2D mode
	EDV (BP)	Left Ventricle	Left Ventricular End Diastolic	
ERVITIN GARGAT I FEILVENUIGE I FEILVENUIGI ENVIZIONE I METHOD. CODE METHOD. MODE MITHOP	EDV (MM-Cubed)	Left Ventricle	Left Ventricular End Diastolic	Method: Cube Method, Mode: M mode

		Volume	
EDV (MM-Teich)	Left Ventricle	Left Ventricular End Diastolic Volume	Method: Teichholz, Mode: M mode
EF (2D-Cubed)	Left Ventricle	Left Ventricular Ejection Fraction	Method: Cube Method, Mode: 2D mode
EF (2D-Teich)	Left Ventricle	Left Ventricular Ejection Fraction	Method: Teichholz, Mode: 2D mode
EF (A/L)	Left Ventricle	Left Ventricular Ejection Fraction	Method: Single Plane Ellipse, Mode: 2D mode
EF (A2C)	Left Ventricle	Left Ventricular Ejection Fraction	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber
EF (A4C)	Left Ventricle	Left Ventricular Ejection Fraction	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber
EF (BP)	Left Ventricle	Left Ventricular Ejection Fraction	Method: Method of Disks, Biplane, Mode: 2D mode
EF (Dumesnil)	Left Ventricle	Left Ventricular Ejection Fraction by Dumesnil 1995	
EF (MM-Cubed)	Left Ventricle	Left Ventricular Ejection Fraction	Method: Cube Method, Mode: M mode
EF (MM-Teich)	Left Ventricle	Left Ventricular Ejection Fraction	Method: Teichholz, Mode: M mode
ESV (2D-Cubed)	Left Ventricle	Left Ventricular End Systolic Volume	Method: Cube Method, Mode: 2D mode
ESV (2D-Teich)	Left Ventricle	Left Ventricular End Systolic Volume	Method: Teichholz, Mode: 2D mode
ESV (A/L)	Left Ventricle	Left Ventricular End Systolic Volume	Method: Single Plane Ellipse, Mode: 2D mode
ESV (BP)	Left Ventricle	Left Ventricular End Systolic Volume	Method: Method of Disks, Biplane, Mode: 2D mode
ESV (MM-Cubed)	Left Ventricle	Left Ventricular End Systolic Volume	Method: Cube Method, Mode: M mode
ESV (MM-Teich)	Left Ventricle	Left Ventricular End Systolic Volume	Method: Teichholz, Mode: M mode
FS (2D-Cubed)	Left Ventricle	Left Ventricular Fractional Shortening	Method: Cube Method, Mode: 2D mode
FS (2D-Teich)	Left Ventricle	Left Ventricular Fractional Shortening	Method: Teichholz, Mode: 2D mode
FS (MM-Cubed)	Left Ventricle	Left Ventricular Fractional Shortening	Method: Cube Method, Mode: M mode
FS (MM-Teich)	Left Ventricle	Left Ventricular Fractional Shortening	Method: Teichholz, Mode: M mode
Hepatic S/D	Hepatic Veins	Hepatic Vein Systolic to Diastolic Ratio	
IVS % (2D)	Left Ventricle	Interventricular Septum % Thickening	Mode: 2D mode
IVS % (MM)	Left Ventricle	Interventricular Septum % Thickening	Mode: M mode
IVS/LVPW (2D)	Left Ventricle	Interventricular Septum to Posterior Wall Thickness Ratio	Mode: 2D mode
IVS/LVPW (MM)	Left Ventricle	Interventricular Septum to Posterior Wall Thickness Ratio	Mode: M mode
LA/Ao (2D)	Left Atrium	Left Atrium to Aortic Root Ratio	Mode: 2D mode
LA/Ao (MM)	Left Atrium	Left Atrium to Aortic Root Ratio	Mode: M mode
LV Mass (A/L)	Left Ventricle	Left Ventricle Mass	Mode: 2D mode
LV Mass (Cubed)	Left Ventricle	Left Ventricle Mass	Method: Cube Method, Mode: M mode
LV Mass Index (A/L)	Left Ventricle	Left Ventricle Mass Index	
LV Mass Index (Cubed)	Left Ventricle	Left Ventricle Mass Index	Method: Cube Method, Mode: M mode
LV PEP/ET	Left Ventricle	PEP/ET	
LVOT Area	Left Ventricle	Cardiovascular Orifice Area	Mode: 2D mode, Target: Left Ventricle Outflow Tract
LVPW % (2D)	Left Ventricle	Left Ventricle Posterior Wall % Thickening	Mode: 2D mode
LVPW % (MM)	Left Ventricle	Left Ventricle Posterior Wall % Thickening	Mode: M mode
MR ERO	Mitral Valve	Cardiovascular Orifice Area	Direction: Regurgitant Flow, Method: Proximal Isovelocity Surface Area
MR Flow Rate	Mitral Valve	Peak Instantaneous Flow Rate	Direction: Regurgitant Flow
MR Fraction	Mitral Valve	Regurgitant Fraction	Direction: Regurgitant Flow

MR Volume	Mitral Valve	Volume Flow	Direction: Regurgitant Flow, Method: Proximal Isovelocity Surface Area
MV E/A	Mitral Valve	Mitral Valve E to A Ratio	
MVA (P ½ t )	Mitral Valve	Cardiovascular Orifice Area	Method: Area by Pressure Half-Time
MVA (PISA)	Mitral Valve	Cardiovascular Orifice Area	Method: Proximal Isovelocity Surface Area
MVA (VTI)	Mitral Valve	Cardiovascular Orifice Area	Method: Continuity Equation by Velocity Time Integral
PISA (AI)	Aortic Valve	Aortic Valve Flow Area	Direction: Regurgitant Flow, Method: Proximal Isovelocity Surface Area
PISA (MR)	Mitral Valve	Mitral Valve Flow Area	Direction: Regurgitant Flow, Method: Proximal Isovelocity Surface Area
PISA (TR)	Tricuspid Valve	Tricuspid Valve Flow Area	Direction: Regurgitant Flow, Method: Proximal Isovelocity Surface Area
Pulm S/D	Pulmonary Venous Structure	Pulmonary Vein Systolic to Diastolic Ratio	
PVA(Vmax)	Pulmonic Valve	Cardiovascular Orifice Area	Method: Continuity Equation by Peak Velocity
PVA(VTI)	Pulmonic Valve	Cardiovascular Orifice Area	Method: Continuity Equation by Velocity Time Integral
Qp/Qs	Cardiac Shunt Study	Pulmonary-to-Systemic Shunt Flow Ratio	
RV PEP/ET	Right Ventricle	PEP/ET	
RVOT Area	Right Ventricle	Cardiovascular Orifice Area	Mode: 2D mode, Target: Right Ventricle Outflow Tract
RVSP	Right Ventricle	Right Ventricular Peak Systolic Pressure	
SI (2D-Cubed)	Left Ventricle	Stroke Index	Method: Cube Method, Mode: 2D mode
SI (2D-Teich)	Left Ventricle	Stroke Index	Method: Teichholz, Mode: 2D mode
SI (A/L)	Left Ventricle	Stroke Index	Method: Single Plane Ellipse, Mode: 2D mode
SI (A2C)	Left Ventricle	Stroke Index	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber
SI (A4C)	Left Ventricle	Stroke Index	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber
SI (BP)	Left Ventricle	Stroke Index	Method: Method of Disks, Biplane, Mode: 2D mode
SI (MM-Cubed)	Left Ventricle	Stroke Index	Method: Cube Method, Mode: M mode
SI (MM-Teich)	Left Ventricle	Stroke Index	Method: Teichholz, Mode: M mode
SV (2D-Cubed)	Left Ventricle	Stroke Volume	Method: Cube Method, Mode: 2D mode
SV (2D-Teich)	Left Ventricle	Stroke Volume	Method: Teichholz, Mode: 2D mode
SV (A/L)	Left Ventricle	Stroke Volume	Method: Single Plane Ellipse, Mode: 2D mode
SV (A2C)	Left Ventricle	Stroke Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber
SV (A4C)	Left Ventricle	Stroke Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber
SV (BP)	Left Ventricle	Stroke Volume	Method: Method of Disks, Biplane, Mode: 2D mode
SV (LVOT)	Left Ventricle	Stroke Volume	Target: Left Ventricle Outflow Tract
SV (MM-Cubed)	Left Ventricle	Stroke Volume	Method: Cube Method, Mode: M mode
SV (MM-Teich)	Left Ventricle	Stroke Volume	Method: Teichholz, Mode: M mode
SV (MV)	Mitral Valve	Stroke Volume	
SV (RVOT)	Right Ventricle	Stroke Volume	Target: Right Ventricle Outflow Tract
SV (TV)	Tricuspid Valve	Stroke Volume	
Tei Index	Mitral Valve	Tei Index	
TR ERO	Tricuspid Valve	Cardiovascular Orifice Area	Direction: Regurgitant Flow, Method: Proximal Isovelocity Surface Area
TR Flow Rate	Tricuspid Valve	Peak Instantaneous Flow Rate	Direction: Regurgitant Flow
TR Fraction	Tricuspid Valve	Regurgitant Fraction	Direction: Regurgitant Flow
TR Volume	Tricuspid Valve	Volume Flow	Direction: Regurgitant Flow
TV Area	Tricuspid Valve	Cardiovascular Orifice Area	Mode: 2D mode
TV E/A	Tricuspid Valve	Tricuspid Valve E to A Ratio	
TVA (PISA)	Tricuspid Valve	Cardiovascular Orifice Area	Method: Proximal Isovelocity Surface Area

Application: Adult Echo, Concepts The table below represent the codes exported by the system for the preceding Measurements and Calculations listed in the tables above, sorted by Code Value (cv).

Csd	CV	cm
DCM	121111	Summary
DCM	125214	Continuity Equation by Peak Velocity
LN	11653-3	End Diastolic Velocity
LN	11726-7	Peak Velocity
LN	17978-8	Mitral Valve A-Wave Peak Velocity
LN	17985-3	Left Atrium to Aortic Root Ratio
LN	17996-0	Aortic Valve Cusp Separation
LN	18011-7	Aortic Arch Diameter
LN	18012-5	Ascending Aortic Diameter
LN	18013-3	Descending Aortic Diameter
LN	18014-1	Aortic Isthmus Diameter
LN	18015-8	Aortic Root Diameter
LN	18019-0	Left Pulmonary Artery Diameter
LN	1802 0-8	Main Pulmonary Artery Diameter
LN	18021-6	Right Pulmonary Artery Diameter
LN	18026-5	Left Ventricular End Diastolic Volume
LN	18030-7	Tricuspid Valve A Wave Peak Velocity
LN	18031-5	Tricuspid Valve E Wave Peak Velocity
LN	18035-6	Mitral Regurgitation dP/dt derived from Mitral Reg velocity
LN	18036-4	Mitral Valve EPSS, E wave
LN	18037-2	Mitral Valve E-Wave Peak Velocity
LN	18038-0	Mitral Valve E to A Ratio
LN	18039-8	Tricuspid Valve E to A Ratio
LN	18040-6	Mitral Valve E-F Slope by M-Mode
LN	18043-0	Left Ventricular Ejection Fraction
LN	18051-3	Left Ventricular Fractional Shortening
LN	18053-9	Left Ventricle Posterior Wall % Thickening
LN	18054-7	Interventricular Septum % Thickening
LN	18070-3	Right Atrium Systolic Pressure
LN	18071-1	Left Ventricular Isovolumic Relaxation Time
LN	18076-0	Left Ventricle systolic major axis
LN	18077-8	Left Ventricle diastolic major axis
LN	18087-7	Left Ventricle Mass
LN	18148-7	Left Ventricular End Systolic Volume
LN	18152-9	Left Ventricle Posterior Wall Diastolic Thickness
LN	18153-7	Right Ventricular Anterior Wall Diastolic Thickness
LN	18154-5	Interventricular Septum Diastolic Thickness
LN	18155-2	Interventricular Septum to Posterior Wall Thickness Ratio
LN	18156-0	Left Ventricle Posterior Wall Systolic Thickness
LN	18158-6	Interventricular Septum Systolic Thickness
LN	20168-1	Acceleration Time
LN	20216-8	Deceleration Slope
LN	20217-6	Deceleration Time
LN	20247-3	Peak Gradient
LN	20256-4	Mean Gradient
LN	20280-4	Pressure Half-Time
LN	20304-2	Right Ventricular Internal Diastolic Dimension
LN	20352-1	Mean Velocity
LN	20354-7	Velocity Time Integral
LN	29436-3	Left Ventricle Internal End Diastolic Dimension
LN	29438-9	Left Ventricle Internal Systolic Dimension
LN	29450-4	Pulmonary Vein Systolic Peak Velocity
LN	29451-2	Pulmonary Vein Diastolic Peak Velocity
LN	29452-0	Pulmonary Vein Systolic to Diastolic Ratio
LN	29453-8	Pulmonary Vein Atrial Contraction Reversal Peak Velocity
LN	29462-9	Pulmonary-to-Systemic Shunt Flow Ratio
LN	29469-4	Left Atrium Antero-posterior Systolic Dimension

LN	29471-0	Henatic Vein Systelic Paak Velocity
LN	29472-8	Hepatic Vein Systolic Peak Velocity
LN	29472-8	Hepatic Vein Diastolic Peak Velocity Hepatic Vein Systolic to Diastolic Ratio
LN	29473-0	Hepatic Vein Atrial Contraction Reversal Peak Velocity
LN	33878-0	Volume Flow
LN	34141-2	Peak Instantaneous Flow Rate
LN	8867-4	Heart rate
99PMSBLUS	C12201-01	Left Ventricle MOD Diam
99PMSBLUS	C12201-01 C12203-01	Left Ventricle Mob Diam
99PMSBLUS	C12203-01	Eject Time
99PMSBLUS	C12203-02	Pre-Eject Time
99PMSBLUS	C12203-03	PEP/ET
99PMSBLUS	C12203-05	Time to LV S Tissue Velocity
99PMSBLUS	C12203-06	Time to LV E Tissue Velocity
99PMSBLUS	C12203-07	Area under LV E Tissue Velocity
99PMSBLUS	C12203-08	Area under LV A Tissue Velocity
99PMSBLUS	C12203-09	Ratio of LV E to A Tissue Velocity
99PMSBLUS	C12203-10	SD of Time to min sys vol for 16 wall segments
99PMSBLUS	C12203-11	SD of Time to min sys vol for 6 basal N 6 Mid segments
99PMSBLUS	C12203-12	SD of Time to min sys vol for 6 basal segments
99PMSBLUS	C12203-13	Max Dif of Time to min sys vol for 16 wall segments
99PMSBLUS	C12203-14	Max Dif of Time to min sys vol for 6 basal N 6 Mid segments
99PMSBLUS	C12203-15	Max Dif of Time to min sys vol for 6 basal segments
99PMSBLUS	C12203-16	Dif of Time to min sys vol btn basal sept N post segments
99PMSBLUS	C12203-17	Dif of Time to min sys vol btn basal sept N lat segments
99PMSBLUS	C12203-18	Nrm. SD of Time to min sys vol for 16 wall segments
99PMSBLUS	C12203-19	Nrm. SD of Time to min sys vol for 6 basal N 6 Mid segments
99PMSBLUS	C12203-20	Nrm. SD of Time to min sys vol for 6 basal segments
99PMSBLUS	C12203-21	Nrm. Mx Dif of Time to min sys vol for 16 wall segments
99PMSBLUS	C12203-22	Nrm. Mx Dif of Time to min sys vol for 6 basal N 6 Mid segments
99PMSBLUS	C12203-23	Nrm. Mx Dif of Time to min sys vol for 6 basal segments
99PMSBLUS	C12203-24	Nrm. Diff of Time to min sys vol btn basal sept N post segments
99PMSBLUS	C12203-25	Nrm. Diff of Time to min sys vol btn basal sept N lat segments
99PMSBLUS	C12203-26	Time between R-R waves
99PMSBLUS	C12203-27	The Average Inward Motion of the Myocardium Across the Entire Left Ventricular Wall
99PMSBLUS	C12203-28	The Standard Deviation of the Inward Motion of the Myocardium Across the Entire Left Ventricular Wall
99PMSBLUS	C12203-29	The Minimum Inward Motion of the Myocardium Across the Entire Left Ventricular Wall
99PMSBLUS	C12203-30	The Maximum Inward Motion of the Myocardium Across the Entire Left Ventricular Wall
99PMSBLUS	C12203-31	Left Ventricular Percent Excursion Average
99PMSBLUS	C12203-32	Left ventricular Percent Excursion Standard Deviation
99PMSBLUS	C12203-35	Left Ventricular Mass End Diastole
99PMSBLUS	C12203-36	Left Ventricular Mass End Systole
99PMSBLUS	C12207-01	Mitral Valve D-E Excursion
99PMSBLUS	C12207-02	Mitral Valve D-E Slope
99PMSBLUS	C12207-03	Mitral Valve E-E Separation
99PMSBLUS	C12207-04	Mitral Valve A-C Interval
99PMSBLUS	C12207-05	Tei Index
99PMSBLUS	C12207-06	Mitral Valve Flow Area
99PMSBLUS	C12207-07	Mitral Valve Anterior Posterior Diameter
99PMSBLUS	C12207-08	Mitral Valve Anterolateral Posteromedial Diameter
99PMSBLUS	C12207-09	Mitral Valve Annulus 3D Circumference
99PMSBLUS	C12207-10	Mitral Valve Anterior Leaflet Length
99PMSBLUS	C12207-11	Mitral Valve Posterior Leaflet Length
99PMSBLUS	C12207-12	Mitral Valve Anterior Leaflets 3D Area
99PMSBLUS	C12207-13	Mitral Valve Posterior Leaflets 3D Area
99PMSBLUS	C12207-14	Mitral Valve Tenting Volume
99PMSBLUS	C12207-15	Mitral Valve Prolapse Volume
99PMSBLUS	C12207-16	Mitral Valve Anterolateral Chord Length
99PMSBLUS	C12207-17	Mitral Valve Posteromedial Chord Length
99PMSBLUS	C12207-18	Mitral Valve Anterior Leaflet Angle
99PMSBLUS	C12207-19	Mitral Valve Posterior Leaflet Angle
99PMSBLUS	C12207-20	Mitral Valve Nonplanar Angle
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99PMSBLUS	C12207-21	Mitral Valve Aortic Orifice to Mitral Plane Angle
99PMSBLUS	C12207-22	Mitral Valve Coaptation 2D Length
99PMSBLUS	C12207-22	Mitral Valve Coaptation 2D Length
99PMSBLUS	C12207-23	Mitral Valve Prolapse Height
99PMSBLUS	C12207-36	Displacement of the left mitral annular hingepoint with respect to the apex
99PMSBLUS	C12207-37	Displacement of the right mitral annular hingepoint with respect to the apex
99PMSBLUS	C12207-38	Displacement of the midpoint between the left and right mitral annular hingepoints with respect to the apex
99PMSBLUS	C12207-39	Normalized Displacement of the midpoint between the left and right mitral annular hingepoints with respect to the apex
99PMSBLUS	C12208-01	Tricuspid Valve D-E Excursion
99PMSBLUS	C12208-02	Tricuspid Valve D-E Slope
99PMSBLUS	C12208-03	Tricuspid Valve E-F Slope
99PMSBLUS	C12208-04	Tricuspid Valve A-C Interval
99PMSBLUS	C12208-05	Tricuspid Valve Flow Area
99PMSBLUS	C12208-06	Displacement of the left Tricuspid annular hingepoint with respect to the apex
99PMSBLUS	C12208-07	Displacement of the right Tricuspid annular hingepoint with respect to the apex
99PMSBLUS	C12208-08	Displacement of the midpoint between the left and right Tricuspid annular hingepoints with
5511100200	012200 00	respect to the apex
99PMSBLUS	C12208-09	Normalized Displacement of the midpoint between the left and right Tricuspid annular
JJINSBEOS	012200 05	hingepoints with respect to the apex
99PMSBLUS	C12209-01	Late Diastolic Slope
99PMSBLUS	C12209-02	A Wave Amp
99PMSBLUS	C12209-02	B-C Slope
99PMSBLUS	C12209-03	Displacement of the left Pulmonic annular hingepoint with respect to the apex
99PMSBLUS	C12209-04	Displacement of the right Pulmonic annular hingepoint with respect to the apex
	C12209-05	
99PMSBLUS		Displacement of the midpoint between the left and right Pulmonic annular hingepoints with respect to the apex
99PMSBLUS	C12209-07	Normalized Displacement of the midpoint between the left and right Pulmonic annular hingepoints with respect to the apex
99PMSBLUS	C12211-01	Aortic Valve Flow Area
99PMSBLUS	C12211-02	Displacement of the left Aortic annular hingepoint with respect to the apex
99PMSBLUS	C12211-03	Displacement of the right Aortic annular hingepoint with respect to the apex
99PMSBLUS	C12211-04	Displacement of the midpoint between the left and right Aortic annular hingepoints with respect to the apex
99PMSBLUS	C12211-05	Normalized Displacement of the midpoint between the left and right Aortic annular hingepoints
99PMSBLUS	C12216-01	with respect to the apex       Hepatic Vein A-Wave Duration
99PMSBLUS	C12220-01	Flow Radius
99PMSBLUS	C12222-02	Alias Velocity
99PMSBLUS	C12222-03	Pressure Half-Time Peak velocity
99PMSBLUS	C12222-04	Acceleration Slope
99PMSBLUS	C3467-04	Left Ventricular Ejection Fraction by Dumesnil 1995
99PMSBLUS	C7470-01	Height
SRT	D4-31150	Ventricular Septal Defect
SRT	D4-31220	Atrial Septal Defect
SRT	F-00078	Stroke Index
SRT	F-32100	Cardiac Output
SRT	F-32110	Cardiac Index
SRT	F-32120	Stroke Volume
SRT	G-0374	Left Ventricular Systolic Area
SRT	G-0375	Left Ventricular Diastolic Area
SRT	G-0376	Left Ventricular Fractional Area Change
SRT	G-0379	Left Ventricle Epicardial Diastolic Area, psax pap view
SRT	G-037A	Left Ventricular Peak Early Diastolic Tissue Velocity
	G-037B	Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave
SRT		
SRT SRT	G-037C	LV Peak Diastolic Tissue Velocity During Atrial Systole
		LV Peak Diastolic Tissue Velocity During Atrial Systole Left Ventricular Peak Systolic Tissue Velocity
SRT	G-037C	
SRT SRT SRT	G-037C G-037D G-037E	Left Ventricular Peak Systolic Tissue Velocity Left Ventricular Isovolumic Contraction Time
SRT SRT SRT SRT	G-037C G-037D G-037E G-0380	Left Ventricular Peak Systolic Tissue Velocity
SRT SRT SRT	G-037C G-037D G-037E	Left Ventricular Peak Systolic Tissue Velocity         Left Ventricular Isovolumic Contraction Time         Right Ventricular Peak Systolic Pressure

SRT	G-038F	Cardiovascular Orifice Diameter
SRT	G-0390	Regurgitant Fraction
SRT	G-0391	Medial Mitral Annulus
SRT	G-0392	Lateral Mitral Annulus
SRT	G-0394	M mode
SRT	G-039B	Parasternal short axis at the Papillary Muscle level
SRT	G-03A2	2D mode
SNM3	G-A166	Area
SNM3	T-32200	Right Atrium
SNM3	T-32300	Left Atrium
SRT	T-32500	Right Ventricle
SNM3	T-32550	Right Ventricle Outflow Tract
SRT	T-32600	Left Ventricle
SNM3	T-32650	Left Ventricle Outflow Tract
SRT	T-35300	Mitral Valve
SRT	T-35410	Aortic Valve ring
SNM3	T-42100	Ascending Aorta
SNM3	T-42300	Aortic Arch
SRT	T-42310	Aortic isthmus
SRT	T-43107	Left Main Coronary Artery
SRT	T-43210	Posterior Descending Right Coronary Artery

#### Adult Echo PDE / Study Info

Label	Referenced Template ID (TID)	Туре	Units
Height	5201, Line 3	NUM	m
Weight	5201, Line 4	NUM	kg
Systolic Blood Pressure	5201, Line 5	NUM	mmHg
Diastolic Blood Pressure	5201, Line 6	NUM	mmHg
Smoker	Private	CHECK	
Hypertension	Private	CHECK	
History of Rheumatic Fever	Private	CHECK	
Congestive Heart Failure	Private	CHECK	
Surgeries	Private	TEXT	
Murmur	Private	CHECK	
Murmur Type	Private	TEXT	
Murmur Grade	Private	TEXT	
Arrythmia	Private	TEXT	
Chest Pain	Private	CHECK	
Jugular Venous Distension	Private	CHECK	
Dyspnea	Private	CHECK	
Peripheral Edema	Private	CHECK	
Fatigue	Private	CHECK	
Ascites	Private	CHECK	
Syncope	Private	CHECK	
Infection	Private	CHECK	
Dizziness	Private	CHECK	
Fever of Unknown Origin	Private	CHECK	
Hemoptysis	Private	CHECK	
TIA / Stroke	Private	CHECK	
Bioprosthetic Valve	Private	TEXT	
Replacement Type			
Bioprosthetic Valve	Private	DATE	
Replacement Date			_
Mechanical Valve Replacement	Private	TEXT	
Туре			4
Mechanical Valve Replacement	Private	DATE	
Date			4
Pacemaker	Private	CHECK	
BSA	Private	NUM	m <sup>2</sup>

#### Additional Codes and Modifiers Used ADULT ECHO – TID5200

T / CID	CSD	CV	СМ	
TID 5203, Row 6	DCM	111031	Image View	
TID 5203, Row 5	SRT	G-0373	Image Mode	
TID 5203, Row 2	SRT	G-C048	Flow Direction	
TID 5200, Row 19	SRT	P5-30031	Cardiac Shunt Study	
TID 5203, Row 4	SRT	R-4089A	Cardiac Cycle Point	
TID 5200, Row 14	SRT	T-35100	Tricuspid Valve	
TID 5200, Row 13	SRT	T-35200	Pulmonic Valve	
TID 5200, Row 11	SRT	T-35400	Aortic Valve	
TID 5200, Row 16	SRT	T-44000	Pulmonic artery	
TID 5200, Row 18	SRT	T-48581	Pulmonary Venous Structure	

### TID 995300 PEDIATRIC ECHO PROCEDURE REPORT

The following tables present information used in Structured Reports for this template.

The tables are sorted by the Label value, which corresponds to the label displayed in the analysis application and reports displayed on the system.

The Measurements table is followed by the Calculations table and then a Concepts or Anatomic Location table which lists the actual Coding Scheme Designator, Code Value and Code Meaning used in the Template section.

The last table in the section is the list of Patient Data Entry (PDE) screen entries that will export in the Structured Report that is specific to the Study Type chosen in the PDE.

Reference for the columns in the mapping tables in TID 995300, reference DICOM Supplement 78LabelAnalysis Label displayedSiteTID95300, Row 7 through 43, value passed as \$SectionSubjectConceptTID995300, Row 7 through 43, value passed as \$MeasTypeModifiersTID995303, Row 2 through 6, value passed as \$Measurement, \$Method and \$TargetSite

All instances of a measurement are exported, in addition to the average, if selected. See the Edit Report page for option selection.

Note: In Analysis setups, it is possible to select multiple results for a single measurement. Default settings are listed in setups via Analysis Config>Pediatric Echo>Measurements. In most cases, the primary measurement is the only one exported via DICOM. As an example, it is possible to select an automatically derived area measurement based on a single distance. The distance measurement will export, the area will not. Generally, diameter measurements may have an optional area displayed, which will not export.

- Which value selected is communicated using TID310, row 6, Selection Status
- The mean value is encoded using TID300, row 4, Derivation

#### Application: Pediatric Echo, Measurements

Label	Site	Concept	Modifiers
A Wave Amp	Pulmonic Valve	A Wave Amp	Mode: M mode
A2Cd	Left Ventricle	Diameter	Method: Method of Disks, Single Plane, Phase: End Diastole, View: Apical two chamber, Number: 1 – 20
A2Cd	Left Ventricle	Area	Method: Method of Disks, Single Plane, Mode: 2D mode, Phase: End Diastole, View: Apical two chamber
A2Cd	Left Ventricle	Major Axis	Method: Method of Disks, Single Plane, Mode: 2D mode, Phase: End Diastole, View: Apical two chamber
A2Cd	Left Ventricle	Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, Phase: End Diastole, View: Apical two chamber
A2Cs	Left Ventricle	Diameter	Method: Method of Disks, Single Plane, Phase: End Systole, View: Apical two chamber, Number: 1-20
A2Cs	Left Ventricle	Area	Method: Method of Disks, Single Plane, Mode: 2D mode, Phase: End Systole, View: Apical two chamber
A2Cs	Left Ventricle	Major Axis	Method: Method of Disks, Single Plane, Mode: 2D mode, Phase: End Systole, View: Apical two chamber
A2Cs	Left Ventricle	Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, Phase: End Systole, View: Apical two chamber
A4Cd	Left Ventricle	Diameter	Method: Method of Disks, Single Plane, Phase: End Diastole, View: Apical four chamber, Number 1-20
A4Cd	Left Ventricle	Area	Method: Method of Disks, Single Plane, Mode: 2D mode, Phase: End Diastole, View: Apical four chamber
A4Cd	Left Ventricle	Major Axis	Method: Method of Disks, Single Plane, Mode: 2D mode, Phase: End Diastole, View: Apical four chamber
A4Cd	Left Ventricle	Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, Phase: End Diastole, View: Apical four chamber
A4Cs	Left Ventricle	Diameter	Method: Method of Disks, Single Plane, Phase: End Systole, View: Apical four chamber, Number: 1-20

	1 -		
A4Cs	Left Ventricle	Area	Method: Method of Disks, Single Plane, Mode: 2D mode, Phase: End Systole, View: Apical four chamber
A4Cs	Left Ventricle	Major Axis	Method: Method of Disks, Single Plane, Mode: 2D mode, Phase: End Systole, View: Apical four chamber
A4Cs	Left Ventricle	Volume	Method: Method of Disks, Single Plane, Mode: 2D mode, Phase: End Systole, View: Apical four chamber
AI Accel	Aortic Valve	Acceleration Slope	Direction: Regurgitant Flow
AI Accel	Aortic Valve	Acceleration Time	Direction: Regurgitant Flow
AI Alias Vel	Aortic Valve	Alias velocity	Direction: Regurgitant Flow
AI Decel Slope	Aortic Valve	Deceleration Slope	Direction: Regurgitant Flow
AI Decel Time	Aortic Valve	Deceleration Time	Direction: Regurgitant Flow
AI End Dias Vel	Aortic Valve	End Diastolic Velocity	Direction: Regurgitant Flow, Phase: End Diastole
AI P ½ t	Aortic Valve	Pressure Half-Time	Direction: Regurgitant Flow
AI Radius	Aortic Valve	Flow Radius	Direction: Regurgitant Flow
AI Vmax	Aortic Valve	Peak Gradient	Direction: Regurgitant Flow
AI Vmax	Aortic Valve	Peak Velocity	Direction: Regurgitant Flow
AI VTI	Aortic Valve	Mean Gradient	Direction: Regurgitant Flow
AI VTI	Aortic Valve	Mean Velocity	Direction: Regurgitant Flow
AI VTI	Aortic Valve	Velocity Time Integral	Direction: Regurgitant Flow
Ao Arch Diam	Aortic arch	Diameter	
Ao Arch Dist	Distal Aorta	Diameter	
Diam			
Ao Isthmus	Aortic isthmus	Diameter	
Diam			
Ao Sinus Diam	Aortic sinus	Diameter	
Ao ST Jx Diam	Aortic	Diameter	
	sinotubular junction		
AoR Diam (2D)	Aortic root	Diameter	Mode: 2D mode
AoR Diam (MM)	Aortic root	Diameter	Mode: M mode
AS Vmax	Aortic Valve	Stenosis Peak Gradient	
AS Vmax	Aortic Valve	Stenosis Peak Velocity	
Asc Ao Diam	Ascending aorta	Diameter	
Asc Ao Max PG	Ascending aorta	Peak Gradient	
Asc Ao Max PG	Ascending aorta	Peak Velocity	
Asc Ao Mean PG	Ascending aorta	Mean Gradient	
ASD Major	Atrial Septal	Major Axis	
ASD Minor	Defect Atrial Septal	Minor Axis	
ASD VTI	Defect Atrial Septal	Mean Gradient	Direction: Antegrade Flow
	Defect	Maan Valasiti	Divertion: Antograda Flow
ASD VTI	Atrial Septal Defect	Mean Velocity	Direction: Antegrade Flow
ASD VTI	Atrial Septal Defect	Peak Gradient	
ASD VTI	Atrial Septal Defect	Peak Velocity	
ASD VTI	Atrial Septal Defect	Velocity Time Integral	Direction: Antegrade Flow
AV Accel	Aortic Valve	Acceleration Slope	Direction: Antegrade Flow
AV Accel	Aortic Valve	Acceleration Time	Direction: Antegrade Flow
AV Annul Diam	Aortic Valve	Diameter	Target: Aortic Valve Ring
AV Area	Aortic Valve	Area	
AV Cusp Sep	Aortic Valve	Aortic Valve Cusp Separation	Mode: M mode
AV Max PG	Aortic Valve	Peak Gradient	Direction: Antegrade Flow
AV Max PG	Aortic Valve	Peak Velocity	Direction: Antegrade Flow
	Aortic Valve	Mean Gradient	Direction: Antegrade Flow
		Deals Cradiant	Direction: Antegrade Flow, Method: Continuity Equation by
AV Mean PG AV Vmax	Aortic Valve	Peak Gradient	Peak Velocity
	Aortic Valve Aortic Valve	Peak Gradient Peak Velocity	

B-C Slope         Pulmonic Valve         B-C Slope         Mode: M mode           Coarctation         Coarctation         Diameter         Mode: M mode           CK         Corcumitex         Diameter         Mode: M mode           Coarctation         Diameter         Mode: M mode         Mode: M mode           Desc Ao Max KG         Thoracci and Peak Gradient         Mode: M mode         Mode: M mode           Desc Ao Max KG         Thoracci and Peak Gradient         Mode: M mode         Mode: M mode           Meant M         Thoracci and Mean         A Waxe Duration         Mode: M mode           Hepatic Diax Vel         Hepatic Velva         A Waxe Duration         Mode: M mode           Hepatic Diax Vel         Hepatic Velva         Hepatic Velva         Phase: End Diaxtole           Hepatic Valve         Hear Rate         Mode: M mode         Mode: M mode           HR - AV         Aortic Valve         Hear Rate         Mode: M mode         Mode: M mode           HR - MV         Mirar Valve         Hear Rate         Mode: M mode         Mode: M mode           HR - AV         Inferior vena         A Wave Duration         Mode: M mode         Mode: M mode           VC A vul         Inferior vena         Systolic blood velocity, peak         Phase: End Systol				
Coartation of Diameter Diam aorta Diameter Diameter CK Croundry Aftery Desc Ao Max G Thoracic aorta Diameter Desc Ao Max G Thoracic aorta Peak Gradient Desc Ao Max G Thoracic aorta Peak Gradient Hepatic View Hepatic View A Wave Duration Hepatic Sys Vel Hepatic View Systolic blood velocity, peak Phase: End Diastole Hepatic Sys Vel Hepatic View Hear Rate HR - AV Aortic Valve Hear Rate HR - PV Unimonic Valve Hear Rate HR - TV Tricuppid Valve Hear Rate Cava D Unimonic Valve Hear Rate Trice To Trice The Thoracic aorta D Diastolic blood velocity, peak Phase: End Diastole CA Du Inferior vena Diastolic blood velocity, peak Phase: End Diastole Cava D Unimonic Valve Hear Rate TVC A Vel Inferior vena Diastolic Dolod velocity, peak Phase: End Diastole Cava D Diastolic Dolod velocity, peak Phase: End Diastole Cava To Trice Ist Ventricia Toxic Contraction Time TVS (MM) D Diameter TVS (MM) D Diameter TVS (MM) D Diameter Target: Left Ventriciar Thickness Mode: 2D mode, Phase: End Diastole Septum TVS (MM) Diameter Target: Left Diastole Septum TVS (MM) Diameter Target: Left Diastole Septum Diameter Diameter Diameter Target: Left Upper Segment Diameter Diameter Diameter Target: Left Upper Segment Diameter Diameter Target: Left Upper Segment Diameter Diameter Ta	AV VTI	Aortic Valve	Velocity Time Integral	Direction: Antegrade Flow
Diam         aorta				Mode: M mode
Cx         Circumfiex Coronary Xter Coronary Xter Desc Ao Diam         Diameter Diameter           Desc Ao Diam         Thoracic aorta         Deak Kingdient           Desc Ao Max PG         Thoracic aorta         Peak Velocity           Desc Ao Max PG         Thoracic aorta         Peak Velocity           Desc Ao Max PG         Thoracic aorta         Mean Gradient           PG         A Wave Duration         Hepatic Aorta           Peak Velocity         A Wave Duration           Repatic Ao Vel         Hepatic Diabit Singdient           Peak Velocity         Disatific Biod velocity, peak           Hepatic Sys Vel         Hepatic Name           R - AV         Aortic Valve         Heart Rate           HR - TV         Left Ventricle         Heart Rate           HR - TV         Ut Ventricle         Heart Rate           HR - TV         Inferior vena         A Wave Duration           CA Vel         Inferior vena         A Wave Duration           Cava         Velocity         Peak           VC Dias Vel         Inferior vena         A Val Contraction Reversal Peak           VC A Vel         Inferior vena         Systolic blood velocity, peak           VS So Vel         Inferior vena         Systolic blood velocity, peak			Diameter	
Coronary Artery         Coronary Artery           Desc Ao Diam         Thoracic aorta         Peak Gradient           Desc Ao Max PG         Thoracic aorta         Peak Gradient           Desc Ao Max PG         Thoracic aorta         Peak Gradient           Desc Ao Max PG         Thoracic aorta         Peak Gradient           PG         Arrai Contraction Reversal Peak         Peak Gradient           Hepatic Value         Hepatic Colors         Arrai Contraction Reversal Peak           Hepatic Value         Plastic Iolog Valocity, peak         Phase: End Diastole           Hepatic Value         Hepatic Rate         Plastic Value           Hepatic Value         Heat Rate         Plastic Value           HR - V         Pulmonic Value         Heat Rate         Plastic Value           HR - TV         Tricosold Value         Heat Rate         Plastic Value           TVC A Val         Inferior value         Avare Duration         Plastic Value           TVC A Value         Inferior value         Diastolic blood valocity, peak         Phase: End Diastole           TVC Sys Val         Inferior value         Systolic blood valocity, peak         Phase: End Diastole           TVC Sys Val         Inferior value         Systolic blood valocity, peak         Phase: End Diastole	-			
Desc Ao Max PG         Thoracic sorta         Peak Velocity           Desc Ao Max PG         Thoracic sorta         Peak Velocity           Desc Ao Max PG         Thoracic sorta         Peak Velocity           Hepatic A Var         Hepatic Velocity         Atrial Contraction Reversal Peak Velocity           Hepatic A Var         Hepatic Velocity         Atrial Contraction Reversal Peak Velocity           Hepatic Sys Vel         Hepatic Velocity         Phase: End Diastole           Hepatic Sys Vel         Hepatic Name         Phase: End Diastole           Rin A. V         Aortic Valve         Heat Rate           HR - IV         Left Virture         Heat Rate           HR - IV         Tricosold Valve         Heat Rate           HR - TV         Tricosold Valve         Heat Rate           LYC A Vel         Inferior vena         Atrial Contraction Reversal Peak           LYC A Vel         Inferior vena         Atrial Contraction Reversal Peak           LYC A Vel         Inferior vena         Systolic blood velocity, peak         Phase: End Diastole           LYC Sys Vel         Inferior vena         Systolic blood velocity, peak         Phase: End Diastole           LYC Sys Vel         Inferior vena         Systolic blood velocity, peak         Phase: End Diastole           L	Cx	Coronary Artery	Diameter	
Desc Ao Max PG         Thoracic aorta         Peak Velocity           Desc Ao Mean         Thoracic aorta         Mean Gradient           PG         Hepatic Veins         A Wave Duration           Hepatic X Vel         Hepatic Veins         A Wave Duration           Hepatic Veins         A Valial Contraction Reversal Peak         Velocity           Hepatic Veins         Systolic blood velocity, peak         Phase: End Diastole           Hepatic Veins         Systolic blood velocity, peak         Phase: End Systole           HR - AV         Aortic Vaive         Heart Rate         Heart Systole           HR - IV         Inferior verna         A Wave Duration         Contraction Reversal Peak           VC A Vei         Inferior verna         A Vave Duration         Contraction Reversal Peak           VC A Vei         Inferior verna         A Vave Duration         Contraction Reversal Peak           VC A Vei         Inferior verna         Diastolic blood velocity, peak         Phase: End Diastole           IVC A Veincite         Inferior verna         Systolic blood velocity, peak         Phase: End Diastole           IVS (2D)         Interventricular         Systolic blood velocity, peak         Phase: End Diastole           IVS1 (MM)         Interventricular         Systolic blood velocity, peak				
Desc Ao Mean         Thoracc aorta         Mean Gradient           PG         Hepatic Veins         A Wave Duration           Hepatic A Dur         Hepatic Veins         Atrial Contraction Reversal Peak           Hepatic Sys Vel         Hepatic Veins         Disatolic blood velocity, peak         Phase: End Disatole           Hepatic Sys Vel         Hepatic Veins         Systolic blood velocity, peak         Phase: End Systole           HR - LV         Left Ventricle         Heart Rate         Phase: End Systole           HR - NV         Antic Valve         Heart Rate         Phase: End Disatole           HR - TV         Left Ventricle         Heart Rate         Phase: End Disatole           HR - TV         Inferior vena         A Wave Duration         Avave Duration           IVC A Vel         Inferior vena         A Wave Duration         Phase: End Disatole           IVC A Vel         Inferior vena         Diameter         Phase: End Disatole           IVC Dias         Inferior vena         Systolic blood velocity, peak         Phase: End Disatole           IVC Sys Vel         Inferverincular         Systolic blood velocity, peak         Phase: End Systole           IVC Sys Vel         Inferverincular         Systolic blood velocity, peak         Mode: 2D mode, Phase: End Disatole				
PG         Hepatic Veins         A Wave Duration           Hepatic A Vel         Hepatic Veins         A Wave Duration           Hepatic Neins         A Varial Contraction Reversal Peak Velocity, peak         Phase: End Diastole           Hepatic Systel         Hepatic Veins         Systelle blood velocity, peak         Phase: End Diastole           HR - AV         Aortic Vaive         Heart Rate         Heart Systel           HR - IV         Left Ventrice         Heart Rate         Heart Systel           HR - IV         Tricuspid Valve         Heart Rate         Heart Systel           HR - TV         Tricuspid Valve         Heart Rate         Heart Rate           HR - TV         Tricuspid Valve         Heart Rate         Heart Rate           INC A Vel         Inferior vena Cava         A Wave Duration         Heart Rate           TVC A Vel         Inferior vena Cava         Velocity, peak         Phase: End Diastole           TVC Systel         Inferior vena Cava         Systolic blood velocity, peak         Phase: End Diastole           TVS Systel         Interventricular         Issoolumic Relaxation Time         Mode: 2D mode, Phase: End Diastole           TVS4         Interventricular         Thickness         Mode: 2D mode, Phase: End Diastole           TVS5 (2D)         I				
Hepatic VelinsAtrial Contraction Reversal Peak VelocityPhase: End DiastoleHepatic Use VelHepatic VelinsSystolic blood velocity, peakPhase: End DiastoleHR = AVAortic ValveHeart RatePhase: End SystoleHR = IVLeft VentricleHeart RateInternational Contraction Reversal PeakHR = NVInferior venaA Wave DurationCavaInferior venaSystolic blood velocity, peakPhase:Inferior venaSystolic blood velocity, peakCavaInferior venaSystolic blood velocity, peakVCT Left VentricleIsovolumic Contraction TimeIVCT SystoliInferior venaCavaInterventicularThicknessMode: M mode, Phase: End DiastoleVSG (M)InterventricularSeptumThicknessVSS (M)InterventricularSeptumNoke: M mode, Phase: End SystoleVSS (M)InterventricularSeptumDiameterVSS (M)InterventricularSeptumThicknessVSS (M)InterventricularAdding -Left Atrium <td< td=""><td></td><td>Thoracic aorta</td><td>Mean Gradient</td><td></td></td<>		Thoracic aorta	Mean Gradient	
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Hepatic Sys VelHepatic VeinsSystolic blood velocity, peakPhase: End SystoleHR - AVLeft VentricleHeart RateHeart RateHR - WPulmonic ValveHeart RateHeart RateHR - PVPulmonic ValveHeart RateHeart RateHR - TVTricuspid ValveHeart RateHeart RateHR - TVTricuspid ValveHeart RateHeart RateIVC A DurInferior vena cavaA Wave Duration cavaA Wave Duration cavaIVC C DiamInferior vena cavaDiameterIVC Dias VelInferior vena cavaDiastolic blood velocity, peakPhase: End Diastole cavaIVC Dias VelInferior vena cavaSystolic blood velocity, peakPhase: End DiastoleIVC JUS Sys VelInferior vena cavaSystolic Contraction TimeHeart RateIVS (2D)Interventricular septumThicknessMode: 2D mode, Phase: End DiastoleIVS (2D)Interventricular septumThicknessMode: 2D mode, Phase: End DiastoleIVS (2D)Interventricular septumThicknessMode: 2D mode, Phase: End SystoleIVS (MM)Interventricular septumThicknessMode: 2D mode, Phase: End SystoleIVS (MM)Interventricular septumThicknessMode: 2D mode, Phase: End SystoleIVS (MM)Interventricular septumDiameterTarget: Left Upper SegmentIDamDiameterTarget: Left Upper SegmentIDamDiameterTarget: Left Upper SegmentIDamLeft Artiru	Hepatic Dias Vel	Hepatic Veins	Diastolic blood velocity, peak	Phase: End Diastole
HR - AV       Aortic Valve       Heart Rate         HR - LV       Left Ventricle       Heart Rate         HR - PV       Mitrai Valve       Heart Rate         HR - PV       Tricuspid Valve       Heart Rate         JNC A Dur       Inferior Valve       Heart Rate         JVC A Dur       Inferior vena       A Wave Duration         Cava       Cava       Part Rate         JVC A Vel       Inferior vena       A Wave Duration Reversal Peak         VCC Vel       Inferior vena       Diameter         Cava       Diastolic blood velocity, peak       Phase: End Diastole         CVC Sys Vel       Inferior vena       Systolic blood velocity, peak       Phase: End Systole         IVCT       Left Ventricle       Isovolumic Contraction Time       Interventricular         IVSG (2D)       Interventricular       Thickness       Mode: 2D mode, Phase: End Diastole         IVSG (2D)       Interventricular       Thickness       Mode: 2D mode, Phase: End Systole         IVSs (MM)       Interventricular       Thickness       Mode: 2D mode, Phase: End Systole         Lower PulmV       Pulmonary vein       Diameter       Target: Left Lower Segment         Idam       Distance       Mode: 2D mode       Mode: 2D mode				Phase: End Systole
HR - VV       Left Ventricle       Heart Rate         HR - PV       Pulmonic Valve       Heart Rate       -         HR - FV       Pulmonic Valve       Heart Rate       -         HR - TV       Tricuspid Valve       Heart Rate       -         HR - TV       Tricuspid Valve       Heart Rate       -         INC A Dur       Inferior vena       Atrial Contraction Reversal Peak       -         IVC Diam       Inferior vena       Diameter       -         Cava       Diastolic blood velocity, peak       Phase: End Diastole       -         IVC Sy Vel       Inferior vena       Systolic blood velocity, peak       Phase: End Systole       -         IVC Totav       Left Ventricle       Isovolumic Contraction Time       -       -       -         IVS (2D)       Interventricular       Thickness       Mode: 2D mode, Phase: End Diastole       -         VSG (2D)       Interventricular       Thickness       Mode: 2D mode, Phase: End Systole       -         VSG (MM)       Interventricular septum       Thickness       Mode: 2D mode, Phase: End Systole       -         VSG (MM)       Interventricular septum       Diameter       Target: Left Lower Segment       -         USS (MM)       Interventrinular septum				
HR - PW     Mitral Valve     Heart Rate       HR - PV     Pulmonic Valve     Heart Rate       INC A Dur     Inferior vena     A Wave Duration       Cava     Atrial Contraction Reversal Peak       IVC A Vel     Inferior vena     Atrial Contraction Reversal Peak       IVC Diam     Inferior vena     Diameter       Cava     Velocity     Phase: End Diastole       IVC Diam     Inferior vena     Diameter       Cava     Diameter     Phase: End Diastole       IVC Sys Vel     Inferior vena     Systolic blood velocity, peak       IVC T     Left Ventricle     Isovolumic Contraction Time       IVKT     Left Ventricle     Isovolumic Contraction Time       IVS (2D)     Interventricular     Thickness       Septum     Thickness     Mode: 2D mode, Phase: End Diastole       VSS (2D)     Interventricular     Thickness       Septum     Thickness     Mode: 2D mode, Phase: End Systole       IVSs (MM)     Interventricular     Thickness       Septum     Diameter     Target: Left Upper Segment       User VulmV     Pulmonary vein     Diameter       Interventricular     Diameter     Target: Left Upper Segment       Lower PulmV     Pulmonary vein     Diameter       Diameter     Carget: Left Arrium </td <td></td> <td></td> <td></td> <td></td>				
HR - TV       Tricuspid Valve       Heart Rate         IVC A Dur       Inferior vena cava       A Wave Duration         IVC A Vel       Inferior vena cava       Atrial Contraction Reversal Peak         IVC Diam       Inferior vena cava       Diameter         IVC Diam       Inferior vena cava       Diastolic blood velocity, peak       Phase: End Diastole         IVC Sys Vel       Inferior vena cava       Systolic blood velocity, peak       Phase: End Systole         IVC T       Left Ventricle       Isovolumic Contraction Time       Interventricular         IVS (2D)       Interventricular       Thickness       Mode: 2D mode, Phase: End Diastole         IVSG (2D)       Interventricular       Thickness       Mode: 2D mode, Phase: End Diastole         septum       Thickness       Mode: 2D mode, Phase: End Systole         IVSS (2D)       Interventricular       Thickness         septum       Thickness       Mode: 2D mode, Phase: End Systole         IVSs (MM)       Interventricular       Thickness         septum       Diameter       Target: Left Lower Segment         Usper PulmV       Pulmonary vein       Diameter       Target: Left Upper Segment         Laber PulmV       Pulmonary vein       Diameter       Target: Left Upper Segment				
HR - TV       Tricuspid Valve       Heart Rate         IVC A Dur       Inferior vena cava       A Wave Duration         IVC A Vel       Inferior vena cava       Atrial Contraction Reversal Peak         IVC Diam       Inferior vena cava       Diameter         IVC Diam       Inferior vena cava       Diastolic blood velocity, peak       Phase: End Diastole         IVC Sys Vel       Inferior vena cava       Systolic blood velocity, peak       Phase: End Systole         IVC T       Left Ventricle       Isovolumic Contraction Time       Interventricular         IVS (2D)       Interventricular       Thickness       Mode: 2D mode, Phase: End Diastole         IVSG (2D)       Interventricular       Thickness       Mode: 2D mode, Phase: End Diastole         septum       Thickness       Mode: 2D mode, Phase: End Systole         IVSS (2D)       Interventricular       Thickness         septum       Thickness       Mode: 2D mode, Phase: End Systole         IVSs (MM)       Interventricular       Thickness         septum       Diameter       Target: Left Lower Segment         Usper PulmV       Pulmonary vein       Diameter       Target: Left Upper Segment         Laber PulmV       Pulmonary vein       Diameter       Target: Left Upper Segment	HR – PV		Heart Rate	
Ca VelCavaLinial Contraction Reversal Peak VelocityIVC DiamInferior vena CavaDiameterIVC DiamInferior vena CavaDiastolic blod velocity, peakPhase: End DiastoleIVC Sys VelInferior vena CavaSystolic blod velocity, peakPhase: End DiastoleIVC Sys VelInferior vena CavaSystolic blod velocity, peakPhase: End DiastoleIVC TLeft VentricleIsovolumic Contraction TimeInterventricular SeptumIVSd (2D)Interventricular septumThicknessMode: 2D mode, Phase: End DiastoleIVSd (MM)Interventricular septumThicknessMode: M mode, Phase: End DiastoleIVSs (2D)Interventricular septumThicknessMode: M mode, Phase: End SystoleIVSs (MM)Interventricular septumThicknessMode: M mode, Phase: End SystoleL Uower PulmVPulmonary vein DiameterDiameterTarget: Left Lower SegmentDiametDiameterTarget: Left Upper SegmentDiametLeft AtriumLeft Atrium Antero-posterior Systolic DimensionMode: M mode, Phase: End SystoleLADLeft AtriumLeft AtriumMajor AxisPhase: End Diastole, View: Apical four chamberAdCLeft AtriumMajor AxisPhase: End D	HR – TV		Heart Rate	
IVC Vel       Inferior vena cava       Atrial Contraction Reversal Peak Velocity         IVC Diam       Inferior vena cava       Diameter         IVC Dias Vel       Inferior vena cava       Diastolic blood velocity, peak       Phase: End Diastole         IVC Sys Vel       Inferior vena cava       Systolic blood velocity, peak       Phase: End Systole         IVC Sys Vel       Inferior vena cava       Systolic blood velocity, peak       Phase: End Systole         IVT       Left Ventricle       Isovolumic Relaxation Time       Mode: 2D mode, Phase: End Diastole         IVSG (2D)       Interventricular septum       Thickness       Mode: 2D mode, Phase: End Diastole         IVSS (2D)       Interventricular septum       Thickness       Mode: 2D mode, Phase: End Systole         IVSs (2D)       Interventricular septum       Thickness       Mode: 2D mode, Phase: End Systole         USS (2D)       Interventricular septum       Thickness       Mode: 2D mode, Phase: End Systole         Ubmer VelmV       Pulmonary vein Diameter       Diameter       Target: Left Lower Segment         Ilam       Liburenty       Diameter       Target: Left Upper Segment         Iam       Left Atrium       Distance       Mode: 2D mode         LAD       Left Atrium       Left Atrium Antero-posterior Systolic Dimension       Mode:		Inferior vena		
IVC Diam         Inferior vena cava         Diameter           IVC Dias Vel         Inferior vena cava         Diastolic blood velocity, peak         Phase: End Diastole           IVC Sys Vel         Inferior vena cava         Systolic blood velocity, peak         Phase: End Systole           IVCT         Left Ventricle         Isovolumic Contraction Time         Phase: End Diastole           IVT         Left Ventricle         Isovolumic Contraction Time         Mode: 2D mode, Phase: End Diastole           IVSd (2D)         Interventricular septum         Thickness         Mode: 2D mode, Phase: End Diastole           IVSs (2D)         Interventricular septum         Thickness         Mode: 2D mode, Phase: End Systole           I USper PulmW         Pulmonary vein         Diameter         Target: Left Lower Segment           Diameter         Diameter         Target: Left Upper Segment           Diam         Distance         Mode: 2D mode         Phase: End Systole           LA Dimen (2D)         Left Atrium         Distance         Mode: 2D mode         Mode: 2D mode           LAD         Left Atrium         Distance         Mode: 2D mode         Left Atrium           LAD         Left Atrium         Distance         Mode: 2D mode         Left Atrium           LAD         Left Atrium	IVC A Vel	Inferior vena		
CavaCavaCavaCavaIVC Sy VelInferior vena cavaSystolic blood velocity, peakPhase: End SystoleIVCTLeft VentricleIsovolumic Contraction TimeInterventricularIVSd (2D)Interventricular septumThicknessMode: 2D mode, Phase: End DiastoleIVSd (2D)Interventricular septumThicknessMode: 2D mode, Phase: End DiastoleIVSd (2D)Interventricular septumThicknessMode: M mode, Phase: End DiastoleIVSs (2D)Interventricular septumThicknessMode: M mode, Phase: End SystoleIVSs (2D)Interventricular septumThicknessMode: M mode, Phase: End SystoleIVSs (MM)Interventricular septumThicknessMode: M mode, Phase: End SystoleLower PulmVPulmonary vein DiameterDiameterTarget: Left Lower SegmentLipper PulmVDuenterDiameterTarget: Left Upper SegmentLADLeft AtriumDistanceMode: M mode, Phase: End SystoleLADLeft AtriumDiameterMode: 2D modeLADLeft AtriumDiameterMode: M mode, Phase: End SystoleLADLeft AtriumMajor AxisPhase: End Diastole, View: Apical four chamberA4CAddinor - Left AtriumMajor AxisPhase: End Diastole, View: Apical four chamberA4CLeft AtriumMajor AxisPhase: End Systole, View: Apical four chamberA4CLeft AtriumMajor AxisPhase: End Systole, View: Apical four chamberA4CLeft AtriumMajor	IVC Diam	Inferior vena		
IVC Sys Vel         Inferior vena cava         Systolic blood velocity, peak cava         Phase: End Systole           IVCT         Left Ventricle         Isovolumic Contraction Time         Interventricular septum         Interventricular septum         Interventricular septum         Thickness         Mode: 2D mode, Phase: End Diastole           IVSG (2D)         Interventricular septum         Thickness         Mode: 2D mode, Phase: End Diastole           IVSs (2D)         Interventricular septum         Thickness         Mode: 2D mode, Phase: End Systole           IVSs (2D)         Interventricular septum         Thickness         Mode: 2D mode, Phase: End Systole           IVSs (MM)         Interventricular septum         Thickness         Mode: 2D mode, Phase: End Systole           IVSs (MM)         Interventricular septum         Thickness         Mode: M mode, Phase: End Systole           IL Ower PulmV         Pulmonary vein Diameter         Diameter         Target: Left Upper Segment           Idamension         Left Atrium         Distance         Mode: M mode, Phase: End Systole           IA Dimension         Left Atrium         Diameter         Mode: M mode, Phase: End Diastole, View: Apical four chamber           LAde Major - A4C         Left Atrium         Major Axis         Phase: End Diastole, View: Apical four chamber           A4C         A4C	IVC Dias Vel		Diastolic blood velocity, peak	Phase: End Diastole
IVCT     Left Ventricle     Isovolumic Contraction Time       IVRT     Left Ventricle     Isovolumic Relaxation Time       IVSd (2D)     Interventricular septum     Thickness     Mode: 2D mode, Phase: End Diastole       IVSd (MM)     Interventricular septum     Thickness     Mode: 2D mode, Phase: End Diastole       IVSs (2D)     Interventricular septum     Thickness     Mode: 2D mode, Phase: End Systole       IVSs (2D)     Interventricular septum     Thickness     Mode: 2D mode, Phase: End Systole       IVSs (MM)     Interventricular septum     Thickness     Mode: M mode, Phase: End Systole       IVSs (MM)     Interventricular septum     Thickness     Mode: M mode, Phase: End Systole       Lower PulmV     Pulmonary vein     Diameter     Target: Left Lower Segment       Diam     Diameter     Target: Left Upper Segment       Mode: Diameter     Diameter     Mode: M mode, Phase: End Systole       LA Dimen (2D)     Left Atrium     Distance     Mode: M mode, Phase: End Systole       (MM)     Left Anterior     Diameter     Diameter       Descending     Coronary Artery     Diameter     Mode: M mode, Phase: End Diastole, View: Apical four chamber       A4C     Left Atrium     Major Axis     Phase: End Diastole, View: Apical four chamber       A4C     Left Atrium     Major Axis     Phase: End	IVC Sys Vel	Inferior vena	Systolic blood velocity, peak	Phase: End Systole
IVRTLeft VentricleIsovolumic Relaxation TimeIVSd (2D)Interventricular septumThicknessMode: 2D mode, Phase: End DiastoleIVSd (MM)Interventricular septumThicknessMode: M mode, Phase: End DiastoleIVSs (2D)Interventricular septumThicknessMode: 2D mode, Phase: End SystoleIVSs (MM)Interventricular septumThicknessMode: M mode, Phase: End SystoleIVSs (MM)Interventricular septumThicknessMode: M mode, Phase: End SystoleLower PulmVPulmonary veinDiameterTarget: Left Lower SegmentLower PulmVPulmonary veinDiameterTarget: Left Upper SegmentL Diper PulmVPulmonary veinDistanceMode: M mode, Phase: End SystoleL Diper PulmVPulmonary veinDiameterTarget: Left Upper SegmentLA Dimen (2D)Left AtriumLeft Atrium Antero-posterior Systolic DimensionMode: M mode, Phase: End SystoleLADLeft AtriumLeft Atrium Antero-posterior Systolic DimensionMode: M mode, Phase: End SystoleLADLeft AtriumMajor AxisPhase: End Diastole, View: Apical four chamberA4CLeft AtriumMajor AxisPhase: End Diastole, View: Apical four chamberA4CLeft AtriumMajor AxisPhase: End Systole, View: Apical four chamberA4CLeft AtriumMinor AxisPhase: End Systole, View: Apical four chamberLaes Minor - A4CLeft AtriumMinor AxisPhase: End Systole, View: Apical four chamberLaes Minor - A4C <t< td=""><td>IVCT</td><td></td><td>Isovolumic Contraction Time</td><td></td></t<>	IVCT		Isovolumic Contraction Time	
septumInterventricular septumThicknessMode: M mode, Phase: End DiastoleIVSG (MM)Interventricular septumThicknessMode: 2D mode, Phase: End SystoleIVSS (MM)Interventricular septumThicknessMode: M mode, Phase: End SystoleIVSS (MM)Interventricular septumThicknessMode: M mode, Phase: End SystoleL lower PulmVPulmonary vein DiameterDiameterTarget: Left Lower SegmentL Upper PulmVPulmonary vein DiameterDiameterTarget: Left Upper SegmentL Dimen (2D)Left Atrium Systolic Dimension Cornary ArteryDistanceMode: 2D modeLADLeft Atrium Systolic Dimension Cornary ArteryDiameterMode: M mode, Phase: End SystoleLAEd Major - A4CLeft Atrium Minor AxisMajor AxisPhase: End Diastole, View: Apical four chamberA4CLeft Atrium Minor AxisMajor AxisPhase: End Diastole, View: Apical four chamberA4CLeft Atrium A4CMinor AxisPhase: End Systole, View: Apical four chamberLaes Minor - A4CLeft Atrium Minor AxisPhase: End Systole, View: Apical four chamberLaes Minor - A4CLeft Atrium Minor AxisPhase: End Systole, View: Apical four chamberLat A` VelLeft Ventricle Tissue Velocity During Atrial SystoleMode: Tissue Doppler Imaging, Phase: End Diastole, Target: Lateral Mitral Annulus				
IVSd (MM)       Interventricular septum       Thickness       Mode: M mode, Phase: End Diastole         IVSs (2D)       Interventricular septum       Thickness       Mode: 2D mode, Phase: End Systole         IVSs (MM)       Interventricular septum       Thickness       Mode: M mode, Phase: End Systole         L Lower PulmV       Pulmonary vein       Diameter       Target: Left Lower Segment         Diam       Diameter       Target: Left Upper Segment         L Dimen (2D)       Left Atrium       Distance       Mode: M mode, Phase: End Systole         LA Dimen (2D)       Left Atrium       Left Atrium Antero-posterior Systolic Dimension       Mode: M mode, Phase: End Systole         LAD       Left Anterior Descending Coronary Artery       Diameter       Major Axis       Phase: End Diastole, View: Apical four chamber         A4C       Add       Major Axis       Phase: End Diastole, View: Apical four chamber       A4C         Laed Minor -       Left Atrium       Major Axis       Phase: End Systole, View: Apical four chamber         A4C       Add       Major Axis       Phase: End Systole, View: Apical four chamber         Laes Major -       Left Atrium       Major Axis       Phase: End Systole, View: Apical four chamber         Laes Minor -       Left Atrium       Minor Axis       Phase: End Systole, View: Apical four chamber </td <td>IVSd (2D)</td> <td></td> <td>Thickness</td> <td>Mode: 2D mode, Phase: End Diastole</td>	IVSd (2D)		Thickness	Mode: 2D mode, Phase: End Diastole
IVSs (2D)       Interventricular septum       Thickness       Mode: 2D mode, Phase: End Systole         IVSs (MM)       Interventricular septum       Thickness       Mode: M mode, Phase: End Systole         L Lower PulmV       Pulmonary vein       Diameter       Target: Left Lower Segment         Diam       Diameter       Target: Left Upper Segment         LA Dimen (2D)       Left Atrium       Distance       Mode: 2D mode         LA Dimension       Left Atrium       Left Atrium       Left Atrium         LAD       Left Anterior Descending Coronary Artery       Diameter       Major Axis         LAed Major - A4C       Left Atrium       Major Axis       Phase: End Diastole, View: Apical four chamber         A4C       Left Atrium       Minor Axis       Phase: End Systole, View: Apical four chamber         A4C       Left Atrium       Major Axis       Phase: End Diastole, View: Apical four chamber         A4C       Left Atrium       Major Axis       Phase: End Systole, View: Apical four chamber         Laes Major - A4C       Left Atrium       Major Axis       Phase: End Systole, View: Apical four chamber         Laes Minor - Left Atrium       Minor Axis       Phase: End Systole, View: Apical four chamber         Lae A'Vel       Left Ventricle       Area under LV A Tissue Velocity       Mode: Tissue Dopp	IVSd (MM)	Interventricular	Thickness	Mode: M mode, Phase: End Diastole
septumseptumPulmonary vein DiameterDiameterTarget: Left Lower SegmentDiamL Upper PulmV DiamPulmonary vein Pulmonary veinDiameterTarget: Left Upper SegmentLA Dimen (2D)Left AtriumDistanceMode: 2D modeLA Dimension (MM)Left AtriumLeft Atrium Antero-posterior Systolic DimensionMode: M mode, Phase: End SystoleLADLeft Atreior Descending Coronary ArteryDiameterDiameterLAed Major - A4CLeft AtriumMajor AxisPhase: End Diastole, View: Apical four chamberLAed Minor - A4CLeft AtriumMinor AxisPhase: End Diastole, View: Apical four chamberLaes Major - A4CLeft AtriumMajor AxisPhase: End Diastole, View: Apical four chamberLaes Minor - A4CLeft AtriumMajor AxisPhase: End Diastole, View: Apical four chamberLaes Minor - A4CLeft AtriumMinor AxisPhase: End Diastole, View: Apical four chamberLat A' AreaLeft VentricleArea under LV A Tissue VelocityMode: Tissue Doppler Imaging, Target: Lateral Mitral AnnulusLat A' VelLeft VentricleTissue Velocity During Atrial SystoleMode: Tissue Doppler Imaging, Phase: End Diastole, Target: Lateral Mitral Annulus	IVSs (2D)	Interventricular	Thickness	Mode: 2D mode, Phase: End Systole
DiamImage: Constraint of the systemDiameterTarget: Left Upper SegmentDiamDiameterTarget: Left Upper SegmentLA Dimen (2D)Left AtriumDistanceMode: 2D modeLA DimensionLeft AtriumLeft Atrium Antero-posterior Systolic DimensionMode: M mode, Phase: End SystoleLADLeft Anterior Descending Coronary ArteryDiameterMode: M mode, Phase: End SystoleLAed Major - 	IVSs (MM)		Thickness	Mode: M mode, Phase: End Systole
DiamImage: Constraint of the systel of the syst		Pulmonary vein	Diameter	Target: Left Lower Segment
LA Dimension (MM)Left AtriumLeft Atrium Antero-posterior Systolic DimensionMode: M mode, Phase: End SystoleLADLeft Anterior Descending Coronary ArteryDiameterDiameterLAed Major - A4CLeft AtriumMajor AxisPhase: End Diastole, View: Apical four chamberLAed Minor - A4CLeft AtriumMinor AxisPhase: End Diastole, View: Apical four chamberLaes Major - A4CLeft AtriumMajor AxisPhase: End Diastole, View: Apical four chamberLaes Major - A4CLeft AtriumMajor AxisPhase: End Systole, View: Apical four chamberLaes Major - A4CLeft AtriumMinor AxisPhase: End Systole, View: Apical four chamberLaes Major - A4CLeft AtriumMinor AxisPhase: End Systole, View: Apical four chamberLaes Minor - A4CLeft AtriumMinor AxisPhase: End Systole, View: Apical four chamberLat A` AreaLeft VentricleArea under LV A Tissue VelocityMode: Tissue Doppler Imaging, Target: Lateral Mitral AnnulusLat A` VelLeft VentricleTissue Velocity During Atrial SystoleMode: Tissue Doppler Imaging, Phase: End Diastole, Target: Lateral Mitral Annulus		Pulmonary vein	Diameter	Target: Left Upper Segment
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Laes Major - A4CLeft AtriumMajor AxisPhase: End Systole, View: Apical four chamberLaes Minor - A4CLeft AtriumMinor AxisPhase: End Systole, View: Apical four chamberLat A` AreaLeft VentricleArea under LV A Tissue VelocityMode: Tissue Doppler Imaging, Target: Lateral Mitral AnnulusLat A` VelLeft VentricleTissue Velocity During Atrial SystoleMode: Tissue Doppler Imaging, Phase: End Diastole, Target: Lateral Mitral Annulus	LAed Minor –	Left Atrium	Minor Axis	Phase: End Diastole, View: Apical four chamber
Laes Minor –       Left Atrium       Minor Axis       Phase: End Systole, View: Apical four chamber         A4C       Atrea       Left Ventricle       Area under LV A Tissue Velocity       Mode: Tissue Doppler Imaging, Target: Lateral Mitral         Lat A` Vel       Left Ventricle       Tissue Velocity During Atrial       Mode: Tissue Doppler Imaging, Phase: End Diastole, Target:         Lat A` Vel       Left Ventricle       Tissue Velocity During Atrial       Mode: Tissue Doppler Imaging, Phase: End Diastole, Target:	Laes Major –	Left Atrium	Major Axis	Phase: End Systole, View: Apical four chamber
Lat A` Area     Left Ventricle     Area under LV A Tissue Velocity     Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus       Lat A` Vel     Left Ventricle     Tissue Velocity During Atrial Systole     Mode: Tissue Doppler Imaging, Phase: End Diastole, Target: Lateral Mitral Annulus	Laes Minor –	Left Atrium	Minor Axis	Phase: End Systole, View: Apical four chamber
Lat A` Vel Left Ventricle Tissue Velocity During Atrial Systole Mode: Tissue Doppler Imaging, Phase: End Diastole, Target:		Left Ventricle	Area under LV A Tissue Velocity	
Lat Accel Time Left Ventricle Acceleration Time Mode: Tissue Doppler Imaging, Target: Lateral Mitral	Lat A`Vel	Left Ventricle		Mode: Tissue Doppler Imaging, Phase: End Diastole, Target: Lateral Mitral Annulus
	Lat Accel Time	Left Ventricle	Acceleration Time	Mode: Tissue Doppler Imaging, Target: Lateral Mitral

Lat Decel TimeLeft VentricleDeceleration TimeAnnulusLat E' AreaLeft VentricleArea under LV E Tissue VelocityMode: Tissue Doppler Imaging, Target AnnulusLat E' AreaLeft VentricleArea under LV E Tissue VelocityMode: Tissue Doppler Imaging, Target AnnulusLat IVCTLeft VentricleIsovolumic Contraction TimeMode: Tissue Doppler Imaging, Target AnnulusLat IVRTLeft VentricleIsovolumic Relaxation TimeMode: Tissue Doppler Imaging, Target AnnulusLat Peak E' VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Target: Lateral Mitral AnnulusLat Peak S VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Target: Lateral Mitral AnnulusLate Dias SlopePulmonic ValveLate Diastolic SlopeMode: Mode: Mode: Mode: Mode: Mode: Mode: Tissue Doppler Imaging, Phase Target: Lateral Mitral AnnulusLate Dias SlopePulmonic ValveLate Diastolic SlopeMode: Mode: Mod	t: Lateral Mitral t: Lateral Mitral t: Lateral Mitral : Early Diastole, : End Systole, Target:
Lat E' AreaLeft VentricleArea under LV E Tissue VelocityMode: Tissue Doppler Imaging, Target AnnulusLat IVCTLeft VentricleIsovolumic Contraction TimeMode: Tissue Doppler Imaging, Target AnnulusLat IVRTLeft VentricleIsovolumic Relaxation TimeMode: Tissue Doppler Imaging, Target AnnulusLat Peak E` VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Target: Lateral Mitral AnnulusLat Peak S VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Lateral Mitral AnnulusLat Peak S VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Lateral Mitral AnnulusLate Dias SlopePulmonic ValveLate Diastolic SlopeMode: M mode, Phase: End DiastoleLeft MainLeft Main Coronary ArteryDiameterTarget: Left Lower SegmentLL PulmV A DurPulmonary veinA Wave DurationTarget: Left Lower SegmentLL PulmV DiasPulmonary veinDiastolic blood velocity, peakPhase: End Diastole, Target: Left LowerVelLL PulmV SysPulmonary veinSystolic blood velocity, peakPhase: End Systole, Target: Left Lower	t: Lateral Mitral t: Lateral Mitral t: Lateral Mitral : Early Diastole, : End Systole, Target:
Lat IVCTLeft VentricleIsovolumic Contraction TimeMode: Tissue Doppler Imaging, Target AnnulusLat IVRTLeft VentricleIsovolumic Relaxation TimeMode: Tissue Doppler Imaging, Target AnnulusLat Peak E` VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Target: Lateral Mitral AnnulusLat Peak S VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Lateral Mitral AnnulusLat Peak S VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Lateral Mitral AnnulusLate Dias SlopePulmonic ValveLate Diastolic SlopeMode: M mode, Phase: End DiastoleLeft Main Coronary ArteryDiameterDiameterLL PulmV A DurPulmonary veinA Wave DurationTarget: Left Lower SegmentLL PulmV A VelPulmonary veinAtrial Contraction Reversal Peak VelocityTarget: Left Lower SegmentLL PulmV Dias VelPulmonary veinDiastolic blood velocity, peakPhase: End Diastole, Target: Left LowerLL PulmV SysPulmonary veinSystolic blood velocity, peakPhase: End Systole, Target: Left Lower	t: Lateral Mitral t: Lateral Mitral : Early Diastole, : End Systole, Target:
Lat IVRTLeft VentricleIsovolumic Relaxation TimeMode: Tissue Doppler Imaging, Target AnnulusLat Peak E` VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Target: Lateral Mitral AnnulusLat Peak S VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Target: Lateral Mitral AnnulusLat Peak S VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Lateral Mitral AnnulusLate Dias SlopePulmonic ValveLate Diastolic SlopeMode: M mode, Phase: End DiastoleLeft MainLeft Main Coronary ArteryDiameterTarget: Left Lower SegmentLL PulmV A DurPulmonary veinA Wave DurationTarget: Left Lower SegmentLL PulmV A VelPulmonary veinDiastolic blood velocity, peakPhase: End Diastole, Target: Left LowerLL PulmV Dias VelPulmonary veinSystolic blood velocity, peakPhase: End Systole, Target: Left Lower	t: Lateral Mitral : Early Diastole, : End Systole, Target:
Lat Peak E` VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Target: Lateral Mitral AnnulusLat Peak S VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Lateral Mitral AnnulusLate Dias SlopePulmonic ValveLate Diastolic SlopeMode: M mode, Phase: End DiastoleLeft MainLeft Main Coronary ArteryDiameterLL PulmV A DurPulmonary veinA Wave DurationTarget: Left Lower SegmentLL PulmV A VelPulmonary veinAtrial Contraction Reversal Peak VelocityTarget: Left Lower SegmentLL PulmV Dias VelPulmonary veinDiastolic blood velocity, peakPhase: End Diastole, Target: Left LowerLL PulmV SysPulmonary veinSystolic blood velocity, peakPhase: End Systole, Target: Left Lower	: Early Diastole, : End Systole, Target:
Lat Peak E` VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase: Target: Lateral Mitral AnnulusLat Peak S VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase: Lateral Mitral AnnulusLate Dias SlopePulmonic ValveLate Diastolic SlopeMode: M mode, Phase: End DiastoleLeft MainLeft MainDiameterCoronary ArteryDiameterLL PulmV A DurPulmonary veinA Wave DurationTarget: Left Lower SegmentLL PulmV A VelPulmonary veinAtrial Contraction Reversal Peak VelocityTarget: Left Lower SegmentLL PulmV Dias 	: End Systole, Target:
Lat Peak S VelLeft VentricleTissue VelocityMode: Tissue Doppler Imaging, Phase Lateral Mitral AnnulusLate Dias SlopePulmonic ValveLate Diastolic SlopeMode: M mode, Phase: End DiastoleLeft MainLeft Main Coronary ArteryDiameterMode: M mode, Phase: End DiastoleLL PulmV A DurPulmonary veinA Wave DurationTarget: Left Lower SegmentLL PulmV A VelPulmonary veinAtrial Contraction Reversal Peak VelocityTarget: Left Lower SegmentLL PulmV Dias VelPulmonary veinDiastolic blood velocity, peakPhase: End Diastole, Target: Left LowerLL PulmV SysPulmonary veinSystolic blood velocity, peakPhase: End Systole, Target: Left Lower	
Late Dias Slope       Pulmonic Valve       Late Diastolic Slope       Mode: M mode, Phase: End Diastole         Left Main       Left Main       Diameter       Diameter         Coronary Artery       A Wave Duration       Target: Left Lower Segment         LL PulmV A Dur       Pulmonary vein       A Wave Duration Reversal Peak       Target: Left Lower Segment         LL PulmV Dias       Pulmonary vein       Diastolic blood velocity, peak       Phase: End Diastole, Target: Left Lower         LL PulmV Sys       Pulmonary vein       Systolic blood velocity, peak       Phase: End Systole, Target: Left Lower	er Segment
Coronary Artery       Coronary Artery         LL PulmV A Dur       Pulmonary vein       A Wave Duration       Target: Left Lower Segment         LL PulmV A Vel       Pulmonary vein       Atrial Contraction Reversal Peak Velocity       Target: Left Lower Segment         LL PulmV Dias Vel       Pulmonary vein       Diastolic blood velocity, peak       Phase: End Diastole, Target: Left Lower         LL PulmV Sys       Pulmonary vein       Systolic blood velocity, peak       Phase: End Systole, Target: Left Lower	er Seament
LL PulmV A Vel       Pulmonary vein       Atrial Contraction Reversal Peak Velocity       Target: Left Lower Segment         LL PulmV Dias Vel       Pulmonary vein       Diastolic blood velocity, peak       Phase: End Diastole, Target: Left Lower         LL PulmV Sys       Pulmonary vein       Systolic blood velocity, peak       Phase: End Systole, Target: Left Lower	er Seament
Velocity         Velocity           LL PulmV Dias         Pulmonary vein         Diastolic blood velocity, peak         Phase: End Diastole, Target: Left Lowe           LL PulmV Sys         Pulmonary vein         Systolic blood velocity, peak         Phase: End Systole, Target: Left Lowe	er Seament
Vel         Pulmonary vein         Systolic blood velocity, peak         Phase: End Systole, Target: Left Lowe	er Seament
	2
	r Segment
LPA Diam Left pulmonary Diameter artery	
LPA Max PG Left pulmonary Peak Gradient artery	
LPA Max PG Left pulmonary Peak Velocity artery	
LPA Mean PG Left pulmonary Mean Gradient artery	
LU PulmV A Dur Pulmonary vein A Wave Duration Target: Left Upper Segment	
LU PulmV A Vel         Pulmonary vein         Atrial Contraction Reversal Peak         Target: Left Upper Segment           Velocity         Velocity         Velocity         Velocity         Velocity	
LU PulmV Dias         Pulmonary vein         Diastolic blood velocity, peak         Phase: End Diastole, Target: Left Upper	
LU PulmV Sys V Pulmonary vein Systolic blood velocity, peak Phase: End Systole, Target: Left Uppe	er Segment
LV dP/dt Mitral Valve Mitral Regurgitation dP/dt derived from Mitral Reg velocity	
LV Eject Time Left Ventricle Eject Time	
LV ET Left Ventricle Eject Time Mode: M mode	
LV Pre-Eject Left Ventricle Pre-Eject Time Mode: M mode	
LVAd Sax Endo     Left Ventricle     Endocardial Area     Phase: End Diastole, View: Parasterna       Papillary Muscle level     Papillary Muscle level	
LVAd Sax Epi     Left Ventricle     Epicardial Area     Phase: End Diastole, View: Parasterna       Papillary Muscle level     Papillary Muscle level	
Lved - SAX CH     Left Ventricle     Distance     Phase: End Diastole, View: Parasterna level of the mitral chords	
Lved - SAX PM         Left Ventricle         Distance         Phase: End Diastole, View: Parasterna           Papillary Muscle level         Papillary Muscle level         Papillary Muscle level	
Lved Major -     Left Ventricle     Major Axis     Phase: End Diastole, View: Apical four       A4C     A4C     A4C     A4C	
Lved Minor -     Left Ventricle     Minor Axis     Phase: End Diastole, View: Apical four       A4C     A4C     A4C     A4C	
Lves - SAX CH     Left Ventricle     Distance     Phase: End Systole, View: Parasternal of the mitral chords	
Lves - SAX PM         Left Ventricle         Distance         Phase: End Systole, View: Parasternal Papillary Muscle level	
Lves Major -     Left Ventricle     Major Axis     Phase: End Systole, View: Apical four       A4C     Nie Axis     Phase: End Systole, View: Apical four	
Lves Minor -     Left Ventricle     Minor Axis     Phase: End Systole, View: Apical four       A4C     A4C     A4C     A4C	chamber
LVIDd (2D)Left VentricleInternal DimensionMode: 2D mode, Phase: End Diastole	

LVIDd (MM)	Left Ventricle	Internal Dimension	Mode: M mode, Phase: End Diastole
LVIDs (2D)	Left Ventricle	Internal Dimension	Mode: 2D mode, Phase: End Systole
LVIDs (MM)	Left Ventricle	Internal Dimension	Mode: M mode, Phase: End Systole
LVLd Apical	Left Ventricle	Major Axis	Phase: End Diastole
LVOT Accel	Left Ventricle	Acceleration Slope	Target: Left Ventricle Outflow Tract
LVOT Accel	Left Ventricle	Acceleration Time	Target: Left Ventricle Outflow Tract
LVOT Diam	Left Ventricle	Cardiovascular Orifice Diameter	Target: Left Ventricle Outflow Tract
LVOT Max PG	Left Ventricle	Peak Gradient	Target: Left Ventricle Outflow Tract
LVOT Max PG	Left Ventricle	Peak Velocity	Target: Left Ventricle Outflow Tract
LVOT Mean PG	Left Ventricle	Mean Gradient	Target: Left Ventricle Outflow Tract
LVOT Vmax	Left Ventricle	Peak Gradient	Method: Continuity Equation by Peak Velocity, Target: Left Ventricle Outflow Tract
LVOT Vmax	Left Ventricle	Peak Velocity	Method: Continuity Equation by Peak Velocity, Target: Left Ventricle Outflow Tract
LVOT VTI	Left Ventricle	Mean Velocity	Target: Left Ventricle Outflow Tract
LVOT VTI	Left Ventricle	Velocity Time Integral	Target: Left Ventricle Outflow Tract
LVPWd (2D)	Left Ventricle	Thickness	Mode: 2D mode, Phase: End Diastole, Target: Left Ventricle Posterior Wall
LVPWd (MM)	Left Ventricle	Thickness	Mode: M mode, Phase: End Diastole, Target: Left Ventricle Posterior Wall
LVPWs (2D)	Left Ventricle	Thickness	Mode: 2D mode, Phase: End Systole, Target: Left Ventricle Posterior Wall
LVPWs (MM)	Left Ventricle	Thickness	Mode: M mode, Phase: End Systole, Target: Left Ventricle Posterior Wall
Med A` Area	Left Ventricle	Area under LV A Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med Accel Time	Left Ventricle	Acceleration Time	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med Decel Time	Left Ventricle	Deceleration Time	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med E`Area	Left Ventricle	Area under LV E Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med IVCT	Left Ventricle	Isovolumic Contraction Time	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med IVRT	Left Ventricle	Isovolumic Relaxation Time	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
Med Peak A` Vel	Left Ventricle	Tissue Velocity During Atrial Systole	Mode: Tissue Doppler Imaging, Phase: End Diastole, Target: Medial Mitral Annulus
Med Peak E` Vel	Left Ventricle	Tissue Velocity	Mode: Tissue Doppler Imaging, Phase: Early Diastole, Target: Medial Mitral Annulus
Med Peak S Vel	Left Ventricle	Tissue Velocity	Mode: Tissue Doppler Imaging, Phase: End Systole, Target: Medial Mitral Annulus
MPA Diam	Main pulmonary artery	Diameter	
MPA Max PG	Main pulmonary artery	Peak Gradient	
MPA Max PG	Main pulmonary artery	Peak Velocity	
MPA Mean PG	Main pulmonary artery	Mean Gradient	
MR Alias Vel	Mitral Valve	Alias velocity	Direction: Regurgitant Flow
MR Radius	Mitral Valve	Flow Radius	Direction: Regurgitant Flow
MR Vmax	Mitral Valve	Peak Gradient	Direction: Regurgitant Flow
MR Vmax	Mitral Valve	Peak Velocity	Direction: Regurgitant Flow
MR VTI	Mitral Valve	Mean Gradient	Direction: Regurgitant Flow
MR VTI	Mitral Valve	Mean Velocity	Direction: Regurgitant Flow
MR VTI	Mitral Valve	Velocity Time Integral	Direction: Regurgitant Flow
MV A Dur	Mitral Valve	A Wave Duration	
MV A-C Interval	Mitral Valve	A-C Interval	Mode: M mode
MV Accel	Mitral Valve	Acceleration Slope	Direction: Antegrade Flow
MV Accel	Mitral Valve	Acceleration Time	Direction: Antegrade Flow
MV Alias Vel			
	Mitral Valve	Alias velocity	Direction: Antegrade Flow
MV Annul Diam MV Area		Alias velocity Diameter Cardiovascular Orifice Area	

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(Planim)		L	
MV Closure to	Mitral Valve	Closure to Opening Time	
Opening	<u> </u>	<u> </u>	
MV D-E Exc	Mitral Valve	D-E Excursion	Mode: M mode
MV D-E Slope	Mitral Valve	D-E Slope	Mode: M mode
MV Decel Slope	Mitral Valve	Deceleration Slope	Direction: Antegrade Flow
MV Decel Time	Mitral Valve	Deceleration Time	Direction: Antegrade Flow
MV DFP	Mitral Valve	Mitral Diastolic Filling Period	
		(DFPm)	
MV Diam	Mitral Valve	Cardiovascular Orifice Diameter	Mode: 2D mode
MV E-E	Mitral Valve	Mitral Valve E-E Separation	Mode: M mode
Separation	Miture UMahara		NA NA J
MV E-F Slope	Mitral Valve	E-F Slope	Mode: M mode
MV EPSS	Mitral Valve	Mitral Valve EPSS, E wave	Mode: M mode
MV Major	Mitral Valve	Major Axis	
MV Mean PG	Mitral Valve	Mean Gradient	Direction: Antegrade Flow
MV Minor	Mitral Valve	Minor Axis	<u> </u>
MV P ½ t	Mitral Valve	Pressure Half-Time	
MV P ½ t	Mitral Valve	Pressure Half-Time Peak velocity	
MV Peak A Vel	Mitral Valve	A Wave Peak Velocity	Direction: Antegrade Flow
MV Peak E Vel	Mitral Valve	E Wave Peak Velocity	Direction: Antegrade Flow
MV Radius	Mitral Valve	Flow Radius	Direction: Antegrade Flow
MV Vmax	Mitral Valve	Peak Gradient	Direction: Antegrade Flow
MV Vmax	Mitral Valve	Peak Velocity	Direction: Antegrade Flow
MV VTI	Mitral Valve	Mean Velocity	Direction: Antegrade Flow
MV VTI	Mitral Valve	Velocity Time Integral	Direction: Antegrade Flow
PA Accel Time	Main pulmonary artery	Acceleration Slope	
PA Accel Time	Main pulmonary artery	Acceleration Time	
PD	Posterior Descending Right Coronary Artery	Diameter	
PDA Diam	Patent ductus arteriosus	Diameter	
PDA Dias Vel	Patent ductus arteriosus	Diastolic blood velocity, peak	Phase: End Diastole
PDA Sys Vel	Patent ductus arteriosus	Systolic blood velocity, peak	Phase: End Systole
PI Decel Slope	Pulmonic Valve	Deceleration Slope	Direction: Regurgitant Flow
PI Decel Time	Pulmonic Valve	Deceleration Time	Direction: Regurgitant Flow
PI End Dias Vel	Pulmonic Valve	End Diastolic Velocity	Direction: Regurgitant Flow
PIP ½ t	Pulmonic Valve	Pressure Half-Time	Direction: Regurgitant Flow
PI P ½ t	Pulmonic Valve	Pressure Half-Time Peak velocity	Direction: Regurgitant Flow
PulmV A Dur	Pulmonary vein	A Wave Duration	
PulmV A Vel	Pulmonary vein	Atrial Contraction Reversal Peak Velocity	
PulmV Dias Vel	Pulmonary vein	Diastolic blood velocity, peak	Phase: End Diastole
PulmV Sys Vel	Pulmonary vein	Systolic blood velocity, peak	Phase: End Systole
PV Accel	Pulmonic Valve	Acceleration Slope	Direction: Antegrade Flow
PV Accel	Pulmonic Valve	Acceleration Time	Direction: Antegrade Flow
PV Annul Diam	Pulmonic Valve	Diameter	Target: Pulmonic Annulus
PV Max PG	Pulmonic Valve	Peak Gradient	Direction: Antegrade Flow
PV Max PG	Pulmonic Valve	Peak Velocity	Direction: Antegrade Flow
PV Mean PG	Pulmonic Valve	Mean Gradient	Direction: Antegrade Flow
PV Vmax	Pulmonic Valve	Peak Gradient	Direction: Antegrade Flow, Method: Continuity Equation by Peak Velocity
PV Vmax	Pulmonic Valve	Peak Velocity	Direction: Antegrade Flow, Method: Continuity Equation by Peak Velocity
PV VTI	Pulmonic Valve	Moan Volocity	Direction: Antegrade Flow
PV VTI	Pulmonic Valve		
R Lower PulmV	Pulmonary vein	Diameter	Target: Right Lower Segment
Diam	Pullionary vein	Diameter	

R Upper PulmV Diam	Pulmonary vein	Diameter	Target: Right Upper Segment
RA Dimen (2D)	Right Atrium	Distance	Mode: 2D mode
RA Dimension (MM)	Right Atrium	Diameter	Mode: M mode
RA Pressure	Right Atrium	Pressure	Phase: End Systole
RAed Major – A4C	Right Atrium	Major Axis	Phase: End Diastole, View: Apical four chamber
RAed Minor – A4C	Right Atrium	Minor Axis	Phase: End Diastole, View: Apical four chamber
Raes Major – A4C	Right Atrium	Major Axis	Phase: End Systole, View: Apical four chamber
Raes Minor – A4C	Right Atrium	Minor Axis	Phase: End Systole, View: Apical four chamber
RCA	Right Coronary Artery	Diameter	
RL PulmV A Dur	Pulmonary vein	A Wave Duration	Target: Right Lower Segment
RL PulmV A Vel	Pulmonary vein	Atrial Contraction Reversal Peak Velocity	Target: Right Lower Segment
RL PulmV Dias Vel	Pulmonary vein	Diastolic blood velocity, peak	Phase: End Diastole, Target: Right Lower Segment
RL PulmV Sys Vel	Pulmonary vein	Systolic blood velocity, peak	Phase: End Systole, Target: Right Lower Segment
RPA Diam	Right pulmonary artery	Diameter	
RPA Max PG	Right pulmonary artery	Peak Gradient	
RPA Max PG	Right pulmonary artery	Peak Velocity	
RPA Mean PG	Right pulmonary artery	Mean Gradient	
RU PulmV A Dur	Pulmonary vein	A Wave Duration	Target: Right Upper Segment
RU PulmV A Vel	Pulmonary vein	Atrial Contraction Reversal Peak Velocity	Target: Right Upper Segment
RU PulmV Dias Vel	Pulmonary vein	Diastolic blood velocity, peak	Phase: End Diastole, Target: Right Upper Segment
RU PulmV Sys Vel	Pulmonary vein	Systolic blood velocity, peak	Phase: End Systole, Target: Right Upper Segment
RV Eject Time	Right Ventricle	Eject Time	Mode: M mode
RV ET	Right Ventricle	Eject Time	
RV Pre-Eject Period	Right Ventricle	Pre-Eject Time	Mode: M mode
RVAWd (2D)	Right Ventricle	Thickness	Mode: 2D mode, Phase: End Diastole, Target: Right Ventricular Anterior Wall
RVAWd (MM)	Right Ventricle	Thickness	Mode: M mode, Phase: End Diastole, Target: Right Ventricular Anterior Wall
Rved Major – A4C	Right Ventricle	Major Axis	Phase: End Diastole, View: Apical four chamber
Rved Minor – A4C	Right Ventricle	Minor Axis	Phase: End Diastole, View: Apical four chamber
RVes Major – A4C	Right Ventricle	Major Axis	Phase: End Systole, View: Apical four chamber
RVes Minor – A4C	Right Ventricle	Minor Axis	Phase: End Systole, View: Apical four chamber
RVIDd (2D)	Right Ventricle	Internal Dimension	Mode: 2D mode, Phase: End Diastole
RVIDd (MM)	Right Ventricle	Internal Dimension	Mode: M mode, Phase: End Diastole
RVOT Accel	Right Ventricle	Acceleration Slope	Target: Right Ventricle Outflow Tract
RVOT Accel	Right Ventricle	Acceleration Time	Target: Right Ventricle Outflow Tract
RVOT Diam	Right Ventricle	Cardiovascular Orifice Diameter	Mode: 2D mode, Target: Right Ventricle Outflow Tract
RVOT Max PG	Right Ventricle	Peak Gradient	Target: Right Ventricle Outflow Tract
RVOT Max PG	Right Ventricle	Peak Velocity	Target: Right Ventricle Outflow Tract
RVOT Mean PG	Right Ventricle	Mean Gradient	Target: Right Ventricle Outflow Tract           Method: Continuity Equation by Peak Velocity, Target: Right
RVOT Vmax	Right Ventricle	Peak Gradient	Ventricle Outflow Tract

Notice         Neutronic Control         Ventricle Outfrow Tract         Ventricle Outfrow Tract           RVOT VTI         Right Ventricle         Meeory         Target: Right Ventricle Outflow Tract           RVOT VTI         Right Superior         A Ware Duration         Target: Right Ventricle Outflow Tract           SVC A Vel         Right Superior         A Ware Duration         Passe: End Distoite Outflow Tract           SVC Diam         Right Superior         Ventricle Outflow Tract         Phase: End Distoite           SVC Diaw Vel         Right Superior         Ventricle Outflow Tract         Phase: End Distoite           SVC Diaw Vel         Right Superior         Ventricle Outflow Tract         Phase: End Distoite           SVC Sys Vel         Right Superior         Ventricle         Time to Lt F         File Ventricle           Time to Lat F         Left Ventricle         Time to Lt S Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Leteral Mitral           Annulus         Tricuspid Valve         Alas velocity         Direction: Regurgitant Flow           Tricuspid Valve         Alas velocity         Direction: Regurgitant Flow           R Alaius         Tricuspid Valve         Pask Velocity         Direction: Regurgitant Flow           R V AD UT         Tricuspid Valve         Mas Velocity         Direction: Reg	RVOT Vmax	Right Ventricle	Peak Velocity	Method: Continuity Equation by Peak Velocity, Target: Right
RVDT VIT         Right Superior         Velocity Time Integral         Target: Right Superior         Vena cava           SVC A Val         Right Superior         Atrial Contraction Reversal Peak         Vena cava           SVC Diam         Right Superior         Diameter         Place           SVC Diaw         Right Superior         Diastolic blood velocity, peak         Phase: End Diastole           SVC Dava         Right Superior         Systolic blood velocity, peak         Phase: End Systole           SVC Sys Vel         Right Superior         Systolic blood velocity, peak         Phase: End Systole           Time to Lat E         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Lateral Mitral           Time to Lat S         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Medial Mitral           Time to Med E         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Medial Mitral           Time to Lat S         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Medial Mitral           Time to Lat S         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Medial Mitral           Time to Lat S         Left Ventricle         Alias velocity		-		Ventricle Outflow Tract
SVC A Dur vena cava         A Wave Duration           SVC A Vel         Right Superior vena cava         A Wave Duration Reversal Peak           SVC Diam         Right Superior vena cava         Velacity           SVC Diam         Right Superior vena cava         Diastolic Diod velocity, peak         Phase: End Diastole           SVC Diav         Right Superior         Distolic Diod velocity, peak         Phase: End Systole           SVC Sys Vel         Vena cava         Time to Lat E <sup>+</sup> Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus           Time to Lat E <sup>+</sup> Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus           Time to Med E <sup>+</sup> Left Ventricle         Time to LV S Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus           Time to Med E <sup>+</sup> Left Ventricle         Time to LV S Tissue Velocity         Direction: Regurgitant Flow           TR Radius         Tricuspid Valve         Alias velocity         Direction: Regurgitant Flow           TR Radius         Tricuspid Valve         Alias velocity         Direction: Regurgitant Flow           TR Radius         Tricuspid Valve         Mean Gradient         Direction: Regurgitant Flow           Tricuspid Valve <td< td=""><td></td><td></td><td></td><td></td></td<>				
vena cava         relation           SVC A Vel         Right Superior         Atrial Contraction Reversal Peak           SVC Diam         Right Superior         Diameter           vena cava         Vena cava         Phase: End Diastole           SVC Dias Vel         Right Superior         Diameter           vena cava         Phase: End Systole           SVC Sy SVel         Left Ventricle         Time to LV E Tissue Velocity         Analus           Time to Lat E <sup>*</sup> Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Dopler Imaging, Target: Lateral Mitral           Time to Med E <sup>*</sup> Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Dopler Imaging, Target: Medial Mitral           Time to Med E <sup>*</sup> Left Ventricle         Time to LV S Tissue Velocity         Mode: Tissue Dopler Imaging, Target: Medial Mitral           Time to Med S         Left Ventricle         Time to LV S Tissue Velocity         Mode: Tissue Dopler Imaging, Target: Medial Mitral           Time to Med S         Left Ventricle         Time to LV S Tissue Velocity         Direction: Regurgitant Flow           TR Adias Vel         Tricuspid Valve         Peak Gradient         Direction: Regurgitant Flow           TR Vina         Tricuspid Valve         Peak Gradient         Direction: Regurgitant Flow				Target: Right Ventricle Outflow Tract
SVC A Vel         Right Superior vena cave         Atrial Contraction Reversal Peak Velocity           SVC Diam         Right Superior vena cave         Diameter           SVC Dias Vel         Right Superior vena cave         Diameter           SVC Sys Vel         Right Superior vena cave         Diastolic blood velocity, peak         Phase: End Systole           SVC Sys Vel         Right Superior vena cave         Systolic blood velocity, peak         Phase: End Systole           Time to Lat E*         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus           Time to Med E         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus           Time to Med S         Left Ventricle         Time to LV S Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus           Time to Med S         Left Ventricle         Time to LV S Tissue Velocity         Direction: Regurgitant Flow           TR Adaus         Tricuspid Valve         Allas velocity         Direction: Regurgitant Flow           TR Adaus         Tricuspid Valve         Peak Kondent         Direction: Regurgitant Flow           TR Adaus         Tricuspid Valve         Aveoration         Direction: Regurgitant Flow           TR VIT         Tricuspid Valve	SVC A Dur		A Wave Duration	
SVC Diam       Right Superior       Diasteir         SVC Dias Vel       Right Superior       Diastolic blood velocity, peak       Phase: End Diastole         SVC Sys Vel       Right Superior       Systolic blood velocity, peak       Phase: End Systole         SVC Sys Vel       Right Superior       Systolic blood velocity, peak       Phase: End Systole         Time to Lat E       Left Ventricle       Time to IV S Tissue Velocity       Mode: Tissue Dopler Imaging, Target: Lateral Mitral         Time to Lat S       Left Ventricle       Time to IV S Tissue Velocity       Mode: Tissue Dopler Imaging, Target: Medial Mitral         Time to Med E       Left Ventricle       Time to IV S Tissue Velocity       Mode: Tissue Dopler Imaging, Target: Medial Mitral         Time to Med S       Left Ventricle       Time to IV S Tissue Velocity       Mode: Tissue Dopler Imaging, Target: Medial Mitral         Time to Med S       Left Ventricle       Time to IV S Tissue Velocity       Pinertion: Regurgitant Flow         TR Maaiu       Tricuspid Valve       Peak Velocity       Direction: Regurgitant Flow         TR Wrax       Tricuspid Valve       Mean Velocity       Direction: Regurgitant Flow         TR VTI       Tricuspid Valve       Mean Velocity       Direction: Regurgitant Flow         TA A Dire VI       Tricuspid Valve       A Wave Duration <tr< td=""><td>SVC A Vel</td><td>Right Superior</td><td></td><td></td></tr<>	SVC A Vel	Right Superior		
vena cava         result         Phase: End Diastole           SVC Dias Vel         Right Superior vena cava         Diastolic blood velocity, peak         Phase: End Diastole           SVC Sys Vel         Right Superior vena cava         Systolic blood velocity, peak         Phase: End Systole           Time to Lt E         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppier Imaging, Target: Lateral Mitral Annulus           Time to KS         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppier Imaging, Target: Medial Mitral Annulus           Time to Med S         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppier Imaging, Target: Medial Mitral Annulus           Time to Med S         Left Ventricle         Time to LV E Tissue Velocity         Direction: Regurgitant Flow           TR Adaus         Tricuspid Valve         Peak Gradient         Direction: Regurgitant Flow           TR VTI         Tricuspid Valve         Peak Velocity         Direction: Regurgitant Flow           TV AC         Tricuspid Valve         Veak Gradient         Direction: Regurgitant Flow           TV AC         Tricuspid Valve         Veak Cardient         Direction: Regurgitant Flow           TV AC Tintravi         Tricuspid Valve         Acceleration         Mode: Node: N	CVC Diam			-
Vena Cava         Phase: End Systole           SVC Sys Vel         Right Superior         Systolic blood velocity, peak         Phase: End Systole           Time to LEF         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus           Time to LKS         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Lateral Mitral Annulus           Time to Med S         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus           Time to Med S         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus           Time to Med S         Left Ventricle         Time to LV S Tissue Velocity         Direction: Regurgitant Flow           TR Adaus         Tricuspid Valve         Peak Gradient         Direction: Regurgitant Flow           TR VTI         Tricuspid Valve         Peak Velocity         Direction: Regurgitant Flow           TA VTI         Tricuspid Valve         Mean Velocity         Direction: Regurgitant Flow           TV AC Interva         Ticuspid Valve         A Wave Duration         Ticuspid Valve           Tricuspid Valve         A Wave Duration         Ticuspid Valve         A Wave Duration           Tricuspid Valve <td< td=""><td></td><td>vena cava</td><td></td><td></td></td<>		vena cava		
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Annulus         Annulus           Time to Med E <sup>*</sup> Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus           Time to Med S         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus           TR Allas Vel         Tricuspid Valve         File Nerget         Direction: Regurgitant Flow           TR Max         Tricuspid Valve         Feak Gradient         Direction: Regurgitant Flow           TR VTI         Tricuspid Valve         Meak Velocity         Direction: Regurgitant Flow           TR VTI         Tricuspid Valve         Meak Velocity         Direction: Regurgitant Flow           TR VTI         Tricuspid Valve         Meak Velocity         Direction: Regurgitant Flow           TR VTI         Tricuspid Valve         Avae Duration         Mode: M mode           TV A Dur         Tricuspid Valve         Avae Duration         Mode: M mode           TV A Accel         Tricuspid Valve         Avae Duration: Antegrade Flow           TV Accel         Tricuspid Valve         Avae Duration: Antegrade Flow           TV Alas Vel         Tricuspid Valve         Direction: Antegrade Flow           TV Alas Vel         Tricuspid Valve         Defection: Antegrade Flow           T	Time to Lat E`		Time to LV E Tissue Velocity	Annulus
Time to Med E'         Left Ventricle         Time to LV E Tissue Velocity         Mode: Tissue Dopler Imaging, Target: Medial Mitral Annulus           Time to Med S         Left Ventricle         Time to LV S Tissue Velocity         Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus           TR Radius         Tricuspid Valve         Alias velocity         Direction: Regurgitant Flow           TR Radius         Tricuspid Valve         Peak Gradient         Direction: Regurgitant Flow           TR VTI         Tricuspid Valve         Peak Velocity         Direction: Regurgitant Flow           TR VTI         Tricuspid Valve         Meak Gradient         Direction: Regurgitant Flow           TR VTI         Tricuspid Valve         Mean Gradient         Direction: Regurgitant Flow           TV A C Interval         Mode: Tissue Dopler Imaging, Target: Ticuspid Valve         Acceleration Slope           TV A-C: Interval         Mode: M mode         Mode: M mode           TV Accel         Tricuspid Valve         Acceleration Slope         Direction: Antegrade Flow           TV Accel         Tricuspid Valve         Acceleration Slope         Direction: Antegrade Flow           TV Accel         Tricuspid Valve         Desceleration: Antegrade Flow           TV Accel         Tricuspid Valve         Desceleration Slope         Direction: Antegrade Flow	Time to Lat S	Left Ventricle	Time to LV S Tissue Velocity	Annulus
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TR Radius     Tricuspid Valve     Flow Radius     Direction: Regurgitant Flow       TR Vmax     Tricuspid Valve     Peak Gradient     Direction: Regurgitant Flow       TR Vmax     Tricuspid Valve     Peak Gradient     Direction: Regurgitant Flow       TR VTI     Tricuspid Valve     Peak Gradient     Direction: Regurgitant Flow       TR VTI     Tricuspid Valve     Mean Velocity     Direction: Regurgitant Flow       TV A Dur     Tricuspid Valve     A Wave Duration       TV A.Cc Interval     Tricuspid Valve     A Cceleration Slope       TV Accel     Tricuspid Valve     Acceleration Slope     Direction: Antegrade Flow       TV Accel     Tricuspid Valve     Acceleration Slope     Direction: Antegrade Flow       TV Accel     Tricuspid Valve     Acceleration Slope     Direction: Antegrade Flow       TV Accel     Tricuspid Valve     Acceleration Slope     Direction: Antegrade Flow       TV Anul Diam     Tricuspid Valve     D -E Scom     Mode: M mode       TV D-E Exc     Tricuspid Valve     D -E Scom     Mode: M mode       TV D-E Exc     Tricuspid Valve     D -E Scome     Mode: M mode       TV D-E Scope     Mode: M mode     Tricuspid Valve     D -E Scome       TV D-E Scope     Tricuspid Valve     D -E Scome     Direction: Antegrade Flow       TV Dest S	Time to Med S	Left Ventricle	Time to LV S Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
TR Vmax     Tricuspid Valve     Peak Velocity     Direction: Regurgitant Flow       TR Vmax     Tricuspid Valve     Mean Gradient     Direction: Regurgitant Flow       TR VTI     Tricuspid Valve     Mean Gradient     Direction: Regurgitant Flow       TR VTI     Tricuspid Valve     Mean Gradient     Direction: Regurgitant Flow       TR VTI     Tricuspid Valve     Mean Gradient     Direction: Regurgitant Flow       TV A-C Interval     Tricuspid Valve     A Wave Duration     Mode: M mode       TV A-C Interval     Tricuspid Valve     A C- Interval     Mode: M mode       TV Accel     Tricuspid Valve     Acceleration Slope     Direction: Antegrade Flow       TV ALSUPID Valve     Acceleration Time     Direction: Antegrade Flow       TV Accel     Tricuspid Valve     Acceleration Time     Direction: Antegrade Flow       TV Alas Vel     Tricuspid Valve     Dameter     Target: Tricuspid Annulus       TV D-E Scope     Tricuspid Valve     D-E Excursion     Mode: M mode       TV D-E Slope     Tricuspid Valve     Deceleration Slope     Direction: Antegrade Flow       TV E-E Scope     Tricuspid Valve     Deceleration Time     Direction: Antegrade Flow       TV D-E Slope     Tricuspid Valve     Cardiovascular Orifice Diameter     Mode: M mode       TV E-F Slope     Tricuspid Valve				
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TR VTI     Tricuspid Valve     Mean Gradient     Direction: Regurgitant Flow       TR VTI     Tricuspid Valve     Velocity     Direction: Regurgitant Flow       TV A Dur     Tricuspid Valve     A Wave Duration       TV A-C Interval     Tricuspid Valve     A Wave Duration       TV A-C Interval     Tricuspid Valve     A C-Interval     Mode: M mode       TV A-Ccel     Tricuspid Valve     A Cceleration Slope     Direction: Antegrade Flow       TV Accel     Tricuspid Valve     Acceleration Time     Direction: Antegrade Flow       TV Alias Vel     Tricuspid Valve     Acceleration Time     Direction: Antegrade Flow       TV Alias Vel     Tricuspid Valve     Deneter     Target: Tricuspid Annulus       V Detextor     Tricuspid Valve     Deneter     Target: Tricuspid Annulus       V Detextor     Tricuspid Valve     Detextorin: Antegrade Flow       TV Detextor     Tricuspid Valve     Detextorin: Antegrade Flow       V Detextor     Tricuspid Valve     Detextorin: Antegrade Flow       TV Detextor     Tricuspid Valve     Detextorin: Antegrade Flow       TV Detextor     Tricuspid Valve     Decteration Slope     Direction: Antegrade Flow       TV Decetor     Tricuspid Valve     Deceleration Time     Direction: Antegrade Flow       TV Decetor     Tricuspid Valve     Deceleratio				
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VSD Major     Ventricular     Major Axis       Septal Defect     Minor Axis       VSD Minor     Ventricular       Septal Defect     Minor Axis       Septal Defect     Peak Gradient       VSD Vmax     Ventricular       Septal Defect     Peak Gradient       VSD Vmax     Ventricular       Peak Velocity     Peak Velocity				
VSD Minor     Ventricular     Minor Axis       Septal Defect     Peak Gradient       VSD Vmax     Ventricular     Peak Gradient       Septal Defect     Peak Velocity	VSD Major	Ventricular	Major Axis	
VSD Vmax     Ventricular Septal Defect     Peak Gradient       VSD Vmax     Ventricular     Peak Velocity	VSD Minor	Ventricular	Minor Axis	
VSD Vmax Ventricular Peak Velocity	VSD Vmax	Ventricular	Peak Gradient	
	VSD Vmax	Ventricular	Peak Velocity	

Label	Site	Concept	Modifiers
AI ERO	Aortic Valve	Cardiovascular Orifice Area	Direction: Regurgitant Flow, Method: Proximal Isovelocity Surface Area
AI Flow Rate	Aortic Valve	Peak Instantaneous Flow Rate	Direction: Regurgitant Flow
AI Fraction	Aortic Valve	Regurgitant Fraction	Direction: Regurgitant Flow
AI Volume	Aortic Valve	Volume Flow	Direction: Regurgitant Flow, Method: Proximal Isovelocity
			Surface Area
AoR Area	Aortic root	Cardiovascular Orifice Area	Mode: 2D mode
Asc Ao Max PG (full)	Ascending aorta	Peak Gradient	Method: Full Bernoulli
Asc Ao Mean PG (full)	Ascending aorta	Mean Gradient	Method: Full Bernoulli
ASD Diam	Atrial Septal Defect	Diameter	Derivation: Calculated, Mode: 2D mode
AV Max PG (full)	Aortic Valve	Peak Gradient	Method: Full Bernoulli
AV Mean PG (full)	Aortic Valve	Mean Gradient	Method: Full Bernoulli
AVA(Vmax)	Aortic Valve	Cardiovascular Orifice Area	Method: Continuity Equation by Peak Velocity
AVA(VTI)	Aortic Valve	Cardiovascular Orifice Area	Method: Continuity Equation by Velocity Time Integral
CI (2D-Cubed)	Left Ventricle	Cardiac Index	Method: Cube Method, Mode: 2D mode
CI (2D-Teich)	Left Ventricle	Cardiac Index	Method: Teichholz, Mode: 2D mode
CI (A2C)	Left Ventricle	Cardiac Index	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber
CI (A2C-A/L)	Left Ventricle	Cardiac Index	Method: Single Plane Ellipse, Mode: 2D mode, View: Apical two chamber
CI (A4C)	Left Ventricle	Cardiac Index	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber
CI (A4C-A/L)	Left Ventricle	Cardiac Index	Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber
CI (BP)	Left Ventricle	Cardiac Index	Method: Method of Disks, Biplane, Mode: 2D mode
CI (MM-Cubed)	Left Ventricle	Cardiac Index	Method: Cube Method, Mode: M mode
CI (MM-Teich)	Left Ventricle	Cardiac Index	Method: Teichholz, Mode: M mode
CO (2D-Cubed)	Left Ventricle	Cardiac Output	Method: Cube Method, Mode: 2D mode
CO (2D-Teich)	Left Ventricle	Cardiac Output	Method: Teichholz, Mode: 2D mode
CO (A2C)	Left Ventricle	Cardiac Output	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber
CO (A2C-A/L)	Left Ventricle	Cardiac Output	Method: Single Plane Ellipse, Mode: 2D mode, View: Apical two chamber
CO (A4C)	Left Ventricle	Cardiac Output	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber
CO (A4C-A/L)	Left Ventricle	Cardiac Output	Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber
CO (BP)	Left Ventricle	Cardiac Output	Method: Method of Disks, Biplane, Mode: 2D mode
CO (LVOT)	Left Ventricle	Cardiac Output	Target: Left Ventricle Outflow Tract
CO (MM-Cubed)	Left Ventricle	Cardiac Output	Method: Cube Method, Mode: M mode
CO (MM-Teich)	Left Ventricle	Cardiac Output	Method: Teichholz, Mode: M mode
CO (MV)	Mitral Valve	Cardiac Output	
CO (PV)	Pulmonic Valve	Cardiac Output	
CO (RVOT)	Right Ventricle	Cardiac Output	Target: Right Ventricle Outflow Tract
CO (TV)	Tricuspid Valve	Cardiac Output	
Dsc Ao Max PG (full)	Thoracic aorta	Peak Gradient	Method: Full Bernoulli
Dsc Ao Mean PG (full)	Thoracic aorta	Mean Gradient	Method: Full Bernoulli
É/E`Lateral	Left Ventricle	Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave	Target: Lateral Mitral Annulus
E/E` Medial	Left Ventricle		
E`/A` Lateral	Left Ventricle	Ratio of LV E to A Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Lateral Mitral

`/A` Madial	L of the Manakai allo		Annulus Madaa Tiana Danglan Ing sing Tangah, Madial Mitual
`/A` Medial	Left Ventricle	Ratio of LV E to A Tissue Velocity	Mode: Tissue Doppler Imaging, Target: Medial Mitral Annulus
DV (2D- ubed)	Left Ventricle	Volume	Method: Cube Method, Mode: 2D mode, Phase: End Diastole
DV (2D-Teich)	Left Ventricle	Volume	Method: Teichholz, Mode: 2D mode, Phase: End Diastole
DV (A2C-A/L)	Left Ventricle	Volume	Method: Single Plane Ellipse, Mode: 2D mode, Phase: End Diastole, View: Apical two chamber
DV (A4C-A/L)	Left Ventricle	Volume	Method: Single Plane Ellipse, Mode: 2D mode, Phase: End Diastole, View: Apical four chamber
DV (BP)	Left Ventricle	Volume	Method: Method of Disks, Biplane, Mode: 2D mode, Phase: End Diastole
DV (MM- ubed)	Left Ventricle	Volume	Method: Cube Method, Mode: M mode, Phase: End Diastole
DV (MM-Teich)	Left Ventricle	Volume	Method: Teichholz, Mode: M mode, Phase: End Diastole
F (2D-Cubed)	Left Ventricle	Ejection Fraction	Method: Cube Method, Mode: 2D mode
F (2D-Teich)	Left Ventricle	Ejection Fraction	Method: Teichholz, Mode: 2D mode
F (A2C)	Left Ventricle	Ejection Fraction	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber
F (A2C-A/L)	Left Ventricle	Ejection Fraction	Method: Single Plane Ellipse, Mode: 2D mode, View: Apical two chamber
F (A4C)	Left Ventricle	Ejection Fraction	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber
F (A4C-A/L)	Left Ventricle	Ejection Fraction	Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber
F (BP)	Left Ventricle	Ejection Fraction	Method: Method of Disks, Biplane, Mode: 2D mode
F (MM-Cubed)	Left Ventricle	Ejection Fraction	Method: Cube Method, Mode: M mode
F (MM-Teich)	Left Ventricle	Ejection Fraction	Method: Teichholz, Mode: M mode
SV (2D- ubed)	Left Ventricle	Volume	Method: Cube Method, Mode: 2D mode, Phase: End Systole
SV (2D-Teich)	Left Ventricle	Volume	Method: Teichholz, Mode: 2D mode, Phase: End Systole
SV (A2C-A/L)	Left Ventricle	Volume	Method: Single Plane Ellipse, Mode: 2D mode, Phase: End Systole, View: Apical two chamber
SV (A4C-A/L)	Left Ventricle	Volume	Method: Single Plane Ellipse, Mode: 2D mode, Phase: End Systole, View: Apical four chamber
SV (BP)	Left Ventricle	Volume	Method: Method of Disks, Biplane, Mode: 2D mode, Phase: End Systole
ubed)	Left Ventricle	Volume	Method: Cube Method, Mode: M mode, Phase: End Systole
	Left Ventricle	Volume	Method: Teichholz, Mode: M mode, Phase: End Systole
S (2D-Cubed)			Method: Cube Method, Mode: 2D mode
			Method: Teichholz, Mode: M mode
	cava		
	septum	_	
	septum		
		Interventricular Septum to Posterior Wall Thickness Ratio	
		Wall Thickness Ratio	
Lower Pulm V /D	Pulmonary vein	Systolic to Diastolic Velocity Ratio	Target: Left Lower Segment
Upper Pulm V /D	Pulmonary vein	Systolic to Diastolic Velocity Ratio	Target: Left Upper Segment
	Left Atrium	Left Atrium to Aortic Root Ratio	Mode: 2D mode
A/Ao (MM)	Left Atrium	Left Atrium to Aortic Root Ratio	Mode: M mode
v Mass	Left Ventricle	Left Ventricle Mass	Method: Cube Method, Mode: M mode
SV (A4C-A/L) SV (BP) SV (MM-ubed) SV (MM-Teich) S (2D-Cubed) S (2D-Teich) S (2D-Teich) S (MM-Cubed) S (MM-Cubed) S (MM-Cubed) S (MM-Cubed) S (MM-Teich) epatic S/D VC S/D VS % (2D) VS % (2D) VS % (MM) VS/LVPW (2D) VS/LVPW (MM) Lower Pulm V /D Upper Pulm V /D A/Ao (2D)	Left Ventricle Left Ventricle Left Ventricle Left Ventricle Left Ventricle Left Ventricle Left Ventricle Left Ventricle Hepatic Veins Inferior vena cava Interventricular septum Interventricular septum Left Ventricle Left Ventricle Left Ventricle Pulmonary vein Pulmonary vein	VolumeVolumeVolumeFractional ShorteningFractional ShorteningFractional ShorteningFractional ShorteningSystolic to Diastolic Velocity RatioSystolic to Diastolic Velocity Ratio% Thickening% ThickeningInterventricular Septum to PosteriorWall Thickness RatioInterventricular Septum to PosteriorWall Thickness RatioSystolic to Diastolic Velocity RatioSystolic to Diastolic Velocity RatioSystolic to Diastolic Velocity RatioLeft Atrium to Aortic Root Ratio	Systole, View: Apical two chamber         Method: Single Plane Ellipse, Mode: 2D mode, Phase         Systole, View: Apical four chamber         Method: Method of Disks, Biplane, Mode: 2D mode, End Systole         Method: Cube Method, Mode: M mode, Phase: End Systol         Method: Teichholz, Mode: M mode, Phase: End Systo         Method: Teichholz, Mode: 2D mode         Method: Teichholz, Mode: 2D mode         Method: Teichholz, Mode: 2D mode         Method: Teichholz, Mode: M mode         Mode: 2D mode         Mode: 4 mode         Mode: 4 mode         Target: Left Lower Segment         Target: Left Upper Segment         Mode: 2D mode

LV Mass Index (A/L)	Left Ventricle	Left Ventricle Mass Index	Mode: 2D mode
LV Mass Index (Cubed)	Left Ventricle	Left Ventricle Mass Index	Method: Cube Method, Mode: M mode
LV MPI	Left Ventricle	Left Ventricular Index of Myocardial Performance	
LV PEP/ET	Left Ventricle	Ratio of Pre-Ejection Time to Ejection Time	
LVDP (AI)	Aortic Valve	Left Ventricle Diastolic Pressure with Aortic Insufficiency	Phase: End Diastole
LVETc	Left Ventricle	Heart Rate-Corrected Ejection Time	
LVOT Area	Left Ventricle	Cardiovascular Orifice Area	Mode: 2D mode, Target: Left Ventricle Outflow Tract
LVPEPc	Left Ventricle	Heart Rate-Corrected Pre-Ejection Time	
LVPW % (2D)	Left Ventricle	% Thickening	Mode: 2D mode, Target: Left Ventricle Posterior Wall
LVPW % (MM)	Left Ventricle	% Thickening	Mode: M mode, Target: Left Ventricle Posterior Wall
LVSP (AS)	Aortic Valve	Left Ventricle Systolic Pressure with Aortic Stenosis	Phase: End Systole
Mean VCF	Left Ventricle	Mean Velocity of Circumferential Fiber Shortening	Mode: M mode
Mean VCFc	Left Ventricle	Heart Rate-Corrected Mean Velocity of Circumferential Fiber Shortening	Mode: M mode
MPA Area	Main pulmonary artery	Cardiovascular Orifice Area	Mode: 2D mode
MR ERO	Mitral Valve	Cardiovascular Orifice Area	Direction: Regurgitant Flow, Method: Proximal Isovelocity Surface Area
MR Flow Rate	Mitral Valve	Peak Instantaneous Flow Rate	Direction: Regurgitant Flow
MR Fraction	Mitral Valve	Regurgitant Fraction	Direction: Regurgitant Flow
MR Volume Flow	Mitral Valve	Volume Flow	Direction: Regurgitant Flow, Method: Proximal Isovelocity Surface Area
MV Annul Area	Mitral Valve	Cardiovascular Orifice Area	Mode: 2D mode, Target: Mitral Annulus
MV Area	Mitral Valve	Area	Mode: 2D mode
MV Area (Ellipse)	Mitral Valve	Cardiovascular Orifice Area	Method: Biplane Ellipse, Mode: 2D mode
MV E/A	Mitral Valve	E to A Ratio	
MVA (P ½ t )	Mitral Valve	Cardiovascular Orifice Area	Method: Area by Pressure Half-Time
MVA (PISA)	Mitral Valve	Cardiovascular Orifice Area	Method: Proximal Isovelocity Surface Area
MVA (VTI)	Mitral Valve	Cardiovascular Orifice Area	Method: Continuity Equation by Velocity Time Integral
PAP (AT)	Pulmonic Valve	Pulmonary Artery Pressure using Accel Time	
PISA (AI)	Aortic Valve	Flow Area	Direction: Regurgitant Flow, Method: Proximal Isovelocity Surface Area
PISA (MR)	Mitral Valve	Flow Area	Direction: Regurgitant Flow, Method: Proximal Isovelocity Surface Area
PISA (TR)	Tricuspid Valve	Flow Area	Direction: Regurgitant Flow, Method: Proximal Isovelocity Surface Area
Pulm S/D	Pulmonary vein	Systolic to Diastolic Velocity Ratio	
PVA(Vmax)	Pulmonic Valve	Cardiovascular Orifice Area	Method: Continuity Equation by Peak Velocity
PVA(VTI)	Pulmonic Valve	Cardiovascular Orifice Area	Method: Continuity Equation by Velocity Time Integral
Qp/Qs	Cardiac Shunt Study	Pulmonary-to-Systemic Shunt Flow Ratio	
R Lower Pulm V			Tanash, Disht Lawan Casasant
S/D	Pulmonary vein	Systolic to Diastolic Velocity Ratio	Target: Right Lower Segment
S/D R Upper Pulm V S/D	Pulmonary vein Pulmonary vein	Systolic to Diastolic Velocity Ratio Systolic to Diastolic Velocity Ratio	Target: Right Upper Segment
	-	Systolic to Diastolic Velocity Ratio Right Ventricular Index of	
R Upper Pulm V S/D	Pulmonary vein	Systolic to Diastolic Velocity Ratio Right Ventricular Index of Myocardial Performance Ratio of Pre-Ejection Time to	
R Upper Pulm V S/D RV MPI RV PEP/ET	Pulmonary vein Right Ventricle	Systolic to Diastolic Velocity Ratio Right Ventricular Index of Myocardial Performance	
R Upper Pulm V S/D RV MPI	Pulmonary vein Right Ventricle Right Ventricle	Systolic to Diastolic Velocity Ratio Right Ventricular Index of Myocardial Performance Ratio of Pre-Ejection Time to Ejection Time	Target: Right Upper Segment
R Upper Pulm V S/D RV MPI RV PEP/ET RVOT Area	Pulmonary vein Right Ventricle Right Ventricle Right Ventricle	Systolic to Diastolic Velocity Ratio Right Ventricular Index of Myocardial Performance Ratio of Pre-Ejection Time to Ejection Time Cardiovascular Orifice Area Heart Rate-Corrected Pre-Ejection	Target: Right Upper Segment

Septal Defect         Method:         Cube Method, Mode: 2D mode           SI (2D-Cubed)         Left Ventricle         Stroke Index         Method: Teichholz, Mode: 2D mode,           SI (A2C)         Left Ventricle         Stroke Index         Method: Teichholz, Mode: 2D mode,           SI (A2C)         Left Ventricle         Stroke Index         Method: Teichholz, Mode: 2D mode, View: Apical Iwo chamber           SI (A4C)         Left Ventricle         Stroke Index         Method: Teichholz, Mode: 2D mode, View: Apical Iwo chamber           SI (A4C)         Left Ventricle         Stroke Index         Method: Teinge, Mode: 2D mode, View: Apical Iwo chamber           SI (AAC-A/L)         Left Ventricle         Stroke Index         Method: Teinge, Mode: 2D mode, View: Apical Iwo chamber           SI (AAC-A/L)         Left Ventricle         Stroke Index         Method: Teichholz, Mode: M mode           SI (ABC-Dued)         Left Ventricle         Stroke Volume         Method: Teichholz, Mode: D mode           SV (ADC-Dued)         Left Ventricle         Stroke Volume         Method: Teichholz, Mode: 2D mode, View: Apical Iwo chamber           SV (A2C)         Left Ventricle         Stroke Volume         Method: Teichholz, Mode: 2D mode, View: Apical Iwo chamber           SV (A2C-A/L)         Left Ventricle         Stroke Volume         Method: Teichholz, Mode: 2D mode, View: Apical Iwo chamber				
SI (2D-Teich)       Left Ventricle       Stroke Index       Method: Teichnolz, Mode: 2D mode         SI (A2C)       Left Ventricle       Stroke Index       Method: Nethod of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber         SI (A2C-A/L)       Left Ventricle       Stroke Index       Method: Single Plane, Ellipse, Mode: 2D mode, View: Apical four chamber         SI (A4C)       Left Ventricle       Stroke Index       Method: Single Plane, Ellipse, Mode: 2D mode, View: Apical four chamber         SI (A4C-A/L)       Left Ventricle       Stroke Index       Method: Single Plane, Mode: 2D mode, View: Apical four chamber         SI (BP)       Left Ventricle       Stroke Index       Method: Single Plane, Mode: 2D mode         SI (MM-Cubed)       Left Ventricle       Stroke Index       Method: Teichnolz, Mode: Mode: 2D mode         SI (MM-Cubed)       Left Ventricle       Stroke Index       Method: Teichnolz, Mode: 2D mode         SV (2D-Cubed)       Left Ventricle       Stroke Volume       Method: Teichnolz, Mode: 2D mode         SV (2D-Cubed)       Left Ventricle       Stroke Volume       Method: Single Plane, Mode: 2D mode, View: Apical four chamber         SV (A2C)       Left Ventricle       Stroke Volume       Method: Single Plane, Mode: 2D mode, View: Apical four chamber         SV (A2C)       Left Ventricle       Stroke Volume       Method: Single Plane, Mode: 2D mode	L	Septal Defect		
ST (A2C)         Left Ventricle         Stroke Index         Method: Nethod of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber           ST (A2C-A/L)         Left Ventricle         Stroke Index         Method: Single Plane Ellipse, Mode: 2D mode, View: Apical two chamber           ST (A4C)         Left Ventricle         Stroke Index         Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber           ST (A4C-A/L)         Left Ventricle         Stroke Index         Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber           ST (MM-Cubed)         Left Ventricle         Stroke Index         Method: Nethod of Disks, Biplane, Mode: 2D mode           ST (MM-Fich)         Left Ventricle         Stroke Index         Method: Teichholz, Mode: M mode           ST (MM-Fich)         Left Ventricle         Stroke Volume         Method: Single Plane, Mode: 2D mode           SV (2D-Cubed)         Left Ventricle         Stroke Volume         Method: Single Plane, Mode: 2D mode           SV (A2C)         Left Ventricle         Stroke Volume         Method: Single Plane, Mode: 2D mode, View: Apical two chamber           SV (A4C)         Left Ventricle         Stroke Volume         Method: Single Plane, Mode: 2D mode, View: Apical two chamber           SV (A4C)         Left Ventricle         Stroke Volume         Method: Single Plane, Mode: 2D mode, View: Apical two chamber	SI (2D-Cubed)	Left Ventricle	Stroke Index	Method: Cube Method, Mode: 2D mode
SI (A2C-A/L)Left VentricleStroke IndexView: Apical two chamberSI (A4C)Left VentricleStroke IndexMethod: Single Plane Ellipse, Mode: 2D mode, View: Apical two chamberSI (A4C)Left VentricleStroke IndexMethod: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamberSI (A4C-A/L)Left VentricleStroke IndexMethod: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamberSI (BP)Left VentricleStroke IndexMethod: Method: Method, Mode: 2D modeSI (MM-Cubed)Left VentricleStroke IndexMethod: Cube Method, Mode: 2D modeSI (MM-Teich)Left VentricleStroke IndexMethod: Cube Method, Mode: 2D modeSV (2D-Cubed)Left VentricleStroke VolumeMethod: Cube Method, Mode: 2D modeSV (2D-Cubed)Left VentricleStroke VolumeMethod: Cube Method, Mode: 2D mode, View: Apical two ChamberSV (A2C)Left VentricleStroke VolumeMethod: Single Plane Ellipse, Mode: 2D mode, View: Apical two ChamberSV (A2C)Left VentricleStroke VolumeMethod: Single Plane Ellipse, Mode: 2D mode, View: Apical two ChamberSV (A2C)Left VentricleStroke VolumeMethod: Single Plane Ellipse, Mode: 2D mode, View: Apical two ChamberSV (A4C)Left VentricleStroke VolumeMethod: Single Plane Ellipse, Mode: 2D mode, View: Apical two ChamberSV (A4C)Left VentricleStroke VolumeMethod: Single Plane Ellipse, Mode: 2D mode, View: Apical two ChamberSV (A4C)Left VentricleStroke VolumeMethod: Single Plane Ellipse, Mode: 2D mode, View:				
SI (A4C)Left VentricleStroke IndexMethod: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamberSI (A4C-A/L)Left VentricleStroke IndexMethod: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamberSI (BP)Left VentricleStroke IndexMethod: Cube Method, Mode: XD modeSI (MM-Cubed)Left VentricleStroke IndexMethod: Cube Method, Mode: XD modeSI (MM-Cubed)Left VentricleStroke IndexMethod: Cube Method, Mode: XD modeSV (2D-Cubed)Left VentricleStroke VolumeMethod: Teichholz, Mode: XD modeSV (2D-Cubed)Left VentricleStroke VolumeMethod: Teichholz, Mode: XD modeSV (A2C)Left VentricleStroke VolumeMethod: Teichholz, Mode: ZD modeSV (A2C)Left VentricleStroke VolumeMethod: Single Plane, Mode: 2D mode, View: Apical two chamberSV (A2C)Left VentricleStroke VolumeMethod: Single Plane, Mode: 2D mode, View: Apical four chamberSV (A4C)Left VentricleStroke VolumeMethod: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamberSV (A4C-A/L)Left VentricleStroke VolumeMethod: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamberSV (MAC-A/L)Left VentricleStroke VolumeMethod: Method: Method: Disks, Biplane, Mode: 2D mode, View: Apical four chamberSV (MAC-A/L)Left VentricleStroke VolumeTarget: Left Ventricle Outflow TractSV (MAC-A/L)Left VentricleStroke VolumeTarget: Left Ventricle Outflow Tract </td <td></td> <td>Left Ventricle</td> <td>Stroke Index</td> <td>View: Apical two chamber</td>		Left Ventricle	Stroke Index	View: Apical two chamber
SI (A4C)     Left Ventricle     Stroke Index     Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber       SI (A4C-A/L)     Left Ventricle     Stroke Index     Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber       SI (BP)     Left Ventricle     Stroke Index     Method: Method of Disks, Biplane, Mode: 2D mode       SI (MM-Cubed)     Left Ventricle     Stroke Index     Method: Teichholz, Mode: M mode       SV (A2D-Cubed)     Left Ventricle     Stroke Volume     Method: Teichholz, Mode: M mode       SV (2D-Cubed)     Left Ventricle     Stroke Volume     Method: Method: Method: 2D mode       SV (2D-Cubed)     Left Ventricle     Stroke Volume     Method: Method: Method: 2D mode       SV (A2C)     Left Ventricle     Stroke Volume     Method: Method: Method: Single Plane, Mode: 2D mode, View: Apical two chamber       SV (A4C)     Left Ventricle     Stroke Volume     Method: Method: folisks, Single Plane, Mode: 2D mode, View: Apical two chamber       SV (A4C)     Left Ventricle     Stroke Volume     Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber       SV (A4C)     Left Ventricle     Stroke Volume     Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber       SV (MAC)     Left Ventricle     Stroke Volume     Method: Method of Disks, Biplane, Mode: 2D mode, View: Apical four chamber       SV (MAC)     Left Ven	SI (A2C-A/L)	Left Ventricle	Stroke Index	two chamber
SI (A4C-A/L)     Left Ventricle     Stroke Index     Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber       SI (BP)     Left Ventricle     Stroke Index     Method: Method of Disks, Biplane, Mode: 2D mode       SI (MM-Cubed)     Left Ventricle     Stroke Index     Method: Cube Method, Mode: M mode       SI (MM-Cubed)     Left Ventricle     Stroke Index     Method: Cube Method, Mode: 2D mode       SV (2D-Cubed)     Left Ventricle     Stroke Volume     Method: Cube Method, Mode: 2D mode       SV (2D-Cubed)     Left Ventricle     Stroke Volume     Method: Teichholz, Mode: 2D mode       SV (A2C)     Left Ventricle     Stroke Volume     Method: Single Plane Ellipse, Mode: 2D mode, View: Apical two chamber       SV (A4C)     Left Ventricle     Stroke Volume     Method: Single Plane Ellipse, Mode: 2D mode, View: Apical two chamber       SV (A4C)     Left Ventricle     Stroke Volume     Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber       SV (A4C)     Left Ventricle     Stroke Volume     Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber       SV (A4C-A/L)     Left Ventricle     Stroke Volume     Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber       SV (MVOT)     Left Ventricle     Stroke Volume     Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber       SV (RVOT)     Left Ventricle     Stroke Volume<	SI (A4C)	Left Ventricle	Stroke Index	Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber
SI (MM-Cubed)       Left Ventricle       Stroke Index       Method: Cube Method, Mode: M mode         SI (MM-Teich)       Left Ventricle       Stroke Volume       Method: Teichholz, Mode: M mode         SV (2D-Cubed)       Left Ventricle       Stroke Volume       Method: Cube Method, Mode: 2D mode         SV (2D-Cubed)       Left Ventricle       Stroke Volume       Method: Teichholz, Mode: 3D mode         SV (A2C)       Left Ventricle       Stroke Volume       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber         SV (A2C)       Left Ventricle       Stroke Volume       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber         SV (A4C)       Left Ventricle       Stroke Volume       Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber         SV (A4C-A/L)       Left Ventricle       Stroke Volume       Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber         SV (M4C-a/L)       Left Ventricle       Stroke Volume       Method: Method of Disks, Biplane, Mode: 2D mode, View: Apical Single Plane, Mode: 2D mode         SV (M4C-a/L)       Left Ventricle       Stroke Volume       Method: Method of Disks, Biplane, Mode: 2D mode, View: Apical Single Plane, Mode: 2D mode         SV (MV0T)       Left Ventricle       Stroke Volume       Method: Method of Disks, Biplane, Mode: 2D mode         SV (MV1)       Left Ventr	SI (A4C-A/L)	Left Ventricle	Stroke Index	Method: Single Plane Ellipse, Mode: 2D mode, View: Apical
SI (MM-Cubed)       Left Ventricle       Stroke Index       Method: Cube Method, Mode: M mode         SI (MM-Teich)       Left Ventricle       Stroke Volume       Method: Teichholz, Mode: M mode         SV (2D-Cubed)       Left Ventricle       Stroke Volume       Method: Cube Method, Mode: 2D mode         SV (2D-Cubed)       Left Ventricle       Stroke Volume       Method: Teichholz, Mode: 3D mode         SV (A2C)       Left Ventricle       Stroke Volume       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber         SV (A2C)       Left Ventricle       Stroke Volume       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber         SV (A4C)       Left Ventricle       Stroke Volume       Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber         SV (A4C-A/L)       Left Ventricle       Stroke Volume       Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber         SV (M4C-a/L)       Left Ventricle       Stroke Volume       Method: Method of Disks, Biplane, Mode: 2D mode, View: Apical Single Plane, Mode: 2D mode         SV (M4C-a/L)       Left Ventricle       Stroke Volume       Method: Method of Disks, Biplane, Mode: 2D mode, View: Apical Single Plane, Mode: 2D mode         SV (MV0T)       Left Ventricle       Stroke Volume       Method: Method of Disks, Biplane, Mode: 2D mode         SV (MV1)       Left Ventr	SI (BP)	Left Ventricle	Stroke Index	
ST (MM-Teich)       Left Ventricle       Stroke Volume       Method: Teichholz, Mode: M mode         SV (2D-Cubed)       Left Ventricle       Stroke Volume       Method: Teichholz, Mode: 2D mode         SV (2D-Teich)       Left Ventricle       Stroke Volume       Method: Teichholz, Mode: 2D mode         SV (A2C)       Left Ventricle       Stroke Volume       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber         SV (A4C)       Left Ventricle       Stroke Volume       Method: Single Plane Ellipse, Mode: 2D mode, View: Apical two chamber         SV (A4C)       Left Ventricle       Stroke Volume       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber         SV (A4C)       Left Ventricle       Stroke Volume       Method: Method of Disks, Biplane, Mode: 2D mode, View: Apical four chamber         SV (A4C-A/L)       Left Ventricle       Stroke Volume       Method: Stroke Volume       Method: Method of Disks, Biplane, Mode: 2D mode, View: Apical four chamber         SV (MAC-a/L)       Left Ventricle       Stroke Volume       Method: Cube Method, Mode: M mode       2D mode, View: Apical Wole         SV (MM-Cubed)       Left Ventricle       Stroke Volume       Method: Teichholz, Mode: M mode       SV (WO         SV (MM-Cubed)       Left Ventricle       Stroke Volume       Method: Teichholz, Mode: M mode       SV (WO <t< td=""><td></td><td>Left Ventricle</td><td>Stroke Index</td><td></td></t<>		Left Ventricle	Stroke Index	
SV (2D-Cubed)       Left Ventricle       Stroke Volume       Method: Cube Method, Mode: 2D mode         SV (A2C)       Left Ventricle       Stroke Volume       Method: Teichholz, Mode: 2D mode         SV (A2C)       Left Ventricle       Stroke Volume       Method: Single Plane, Mode: 2D mode, View: Apical two chamber         SV (A2C-A/L)       Left Ventricle       Stroke Volume       Method: Single Plane Ellipse, Mode: 2D mode, View: Apical two chamber         SV (A4C)       Left Ventricle       Stroke Volume       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber         SV (A4C-A/L)       Left Ventricle       Stroke Volume       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber         SV (BP)       Left Ventricle       Stroke Volume       Method: Method of Disks, Biplane, Mode: 2D mode, View: Apical four chamber         SV (MD)       Left Ventricle       Stroke Volume       Target: Left Ventricle Outflow Tract         SV (MV)       Mitral Valve       Stroke Volume       Method: Teichholz, Mode: M mode         SV (RVO)       Pulmonic Valve       Stroke Volume       Target: Right Ventricle Outflow Tract         SV (RVO)       Right Ventricle       Stroke Volume       Target: Right Ventricle Outflow Tract         SV (RVO)       Right Ventricle       Stroke Volume       Target: Right Ventricle Outflow Tract			Stroke Index	
SV (2D-Teich)       Left Ventricle       Stroke Volume       Method: Teichholz, Mode: 2D mode         SV (A2C)       Left Ventricle       Stroke Volume       Method: Method: Method: Single Plane, Mode: 2D mode, View: Apical two chamber         SV (A2C-A/L)       Left Ventricle       Stroke Volume       Method: Single Plane Ellipse, Mode: 2D mode, View: Apical two chamber         SV (A4C)       Left Ventricle       Stroke Volume       Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber         SV (A4C-A/L)       Left Ventricle       Stroke Volume       Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical four chamber         SV (A4C-A/L)       Left Ventricle       Stroke Volume       Method: Method of Disks, Biplane, Mode: 2D mode, View: Apical four chamber         SV (MDC)       Left Ventricle       Stroke Volume       Method: Method of Disks, Biplane, Mode: 2D mode, View: Apical four chamber         SV (MVO)       Left Ventricle       Stroke Volume       Method: Cube Method, Mode: Mode: 2D mode, View: Apical four chamber         SV (MVO)       Left Ventricle       Stroke Volume       Method: Cube Method, Mode: Mode: 2D mode, View: Apical four chamber         SV (MVO)       Left Ventricle       Stroke Volume       Method: Teichholz, Mode: Mode: Mode: 2D mode, View: Apical four chamber         SV (MVO)       Mitral Valve       Stroke Volume       Target: Right Ventricle Outflow Tract				
SV (A2C)       Left Ventricle       Stroke Volume       Method: Method: Method of Disks, Single Plane, Mode: 2D mode, View: Apical two chamber         SV (A2C-A/L)       Left Ventricle       Stroke Volume       Method: Single Plane Ellipse, Mode: 2D mode, View: Apical two chamber         SV (A4C)       Left Ventricle       Stroke Volume       Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber         SV (A4C-A/L)       Left Ventricle       Stroke Volume       Method: Single Plane Ellipse, Mode: 2D mode, View: Apical four chamber         SV (BP)       Left Ventricle       Stroke Volume       Method: Method of Disks, Biplane, Mode: 2D mode, View: Apical four chamber         SV (MP)       Left Ventricle       Stroke Volume       Method: Method. Mode: Method: 2D mode, View: Apical four chamber         SV (MP)       Left Ventricle       Stroke Volume       Method: Method. Mode: Method: 2D mode         SV (MV-Cubed)       Left Ventricle       Stroke Volume       Method: Method. Mode: M mode         SV (MV)       Mitral Valve       Stroke Volume       Method: Teichholz, Mode: M mode         SV (RVOT)       Right Ventricle       Stroke Volume       Target: Right Ventricle Outflow Tract         SV (RVOT)       Right Ventricle       Stroke Volume       Target: Right Ventricle Outflow Tract         SV (RVOT)       Right Ventricle       Stroke Volume       Target: Right Vent				
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TR Volume FlowTricuspid ValveVolume FlowDirection: Regurgitant Flow, Method: Proximal Isovelocity Surface AreaTV Annul AreaTricuspid ValveCardiovascular Orifice AreaMode: 2D mode, Target: Tricuspid AnnulusTV AreaTricuspid ValveAreaMode: 2D modeTV E/ATricuspid ValveE to A RatioTVA (PISA)Tricuspid ValveCardiovascular Orifice AreaVSD DiamVentricular Septal DefectDiameterDiameterDerivation: Calculated, Mode: 2D mode				
TV Annul Area       Tricuspid Valve       Cardiovascular Orifice Area       Mode: 2D mode, Target: Tricuspid Annulus         TV Area       Tricuspid Valve       Area       Mode: 2D mode         TV E/A       Tricuspid Valve       E to A Ratio         TVA (PISA)       Tricuspid Valve       Cardiovascular Orifice Area         VSD Diam       Ventricular       Diameter         Septal Defect       Diameter       Derivation: Calculated, Mode: 2D mode	TR Volume Flow	Tricuspid Valve	5 5	Direction: Regurgitant Flow, Method: Proximal Isovelocity
TV Area     Tricuspid Valve     Area     Mode: 2D mode       TV E/A     Tricuspid Valve     E to A Ratio        TVA (PISA)     Tricuspid Valve     Cardiovascular Orifice Area     Method: Proximal Isovelocity Surface Area       VSD Diam     Ventricular     Diameter     Derivation: Calculated, Mode: 2D mode	TV Annul Area	Tricuspid Valve	Cardiovascular Orifice Area	
TV E/A     Tricuspid Valve     E to A Ratio       TVA (PISA)     Tricuspid Valve     Cardiovascular Orifice Area       VSD Diam     Ventricular     Diameter       Septal Defect     Diameter				
TVA (PISA)         Tricuspid Valve         Cardiovascular Orifice Area         Method: Proximal Isovelocity Surface Area           VSD Diam         Ventricular         Diameter         Derivation: Calculated, Mode: 2D mode           Septal Defect         Ventricular         Derivation: Calculated, Mode: 2D mode				
VSD Diam Ventricular Diameter Derivation: Calculated, Mode: 2D mode Septal Defect				Method: Proximal Isovelocity Surface Area
		Ventricular		
	Wall Stress		Left Ventricle Meridional Wall Stress	Mode: M mode

Application: Pediatric Echo, Concepts The table below represent the codes exported by the system for the preceding Measurements and Calculations listed in the tables above, sorted by Code Value (cv).

Csd	cv	ст
LN	11653-3	End Diastolic Velocity
LN	11726-7	Peak Velocity
DCM	121070	Findings
DCM	121206	Distance
DCM	121427	Estimated
DCM	121428	Calculated
LN	12144-2	Systolic to Diastolic Velocity Ratio
DCM	122202	Diastolic blood velocity, peak

DCM	122204	Systelia blood valasity, popl
DCM DCM	122204 125007	Systolic blood velocity, peak
DCM DCM	125007	Measurement Group Cube Method
DCM	125206	Method of Disks, Biplane
DCM	125207	Method of Disks, Single Plane
DCM	125209	Teichholz
DCM	125210	Area by Pressure Half-Time
DCM	125215	
DCM	125216	Continuity Equation by Velocity Time Integral Proximal Isovelocity Surface Area
DCM	125216	Full Bernoulli
DCM	125220	Planimetry
DCM	125226	Single Plane Ellipse
LN	17985-3	Left Atrium to Aortic Root Ratio
LN	17996-0	Aortic Valve Cusp Separation
LN	18035-6	Mitral Regurgitation dP/dt derived from Mitral Reg velocity
LN	18035-0	Mitral Valve EPSS, E wave
LN	18087-7	Left Ventricle Mass
LN	18155-2	Interventricular Septum to Posterior Wall Thickness Ratio
LN	20168-1	Acceleration Time
LN	20108-1	Deceleration Slope
LN	20210-8	Deceleration Time
LN	20217-0	Peak Gradient
LN	20247-5	Mean Gradient
LN	20230-4	Pressure Half-Time
LN	20352-1	Mean Velocity
LN	20354-7	Velocity Time Integral
LN	29462-9	Pulmonary-to-Systemic Shunt Flow Ratio
LN	29469-4	Left Atrium Antero-posterior Systellic Dimension
LN	33878-0	Volume Flow
LN	34141-2	Peak Instantaneous Flow Rate
LN	8867-4	Heart Rate
99PMSBLUS	C12203-01	Left Ventricle Mass Index
99PMSBLUS	C12203-02	Eject Time
99PMSBLUS	C12203-03	Pre-Eject Time
99PMSBLUS	C12203-05	Time to LV S Tissue Velocity
99PMSBLUS	C12203-06	Time to LV E Tissue Velocity
99PMSBLUS	C12203-07	Area under LV E Tissue Velocity
99PMSBLUS	C12203-08	Area under LV A Tissue Velocity
99PMSBLUS	C12203-09	Ratio of LV E to A Tissue Velocity
99PMSBLUS	C12203-37	Left Ventricle Meridional Wall Stress
99PMSBLUS	C12203-38	Mean Velocity of Circumferential Fiber Shortening (duplicate of 27)
99PMSBLUS	C12203-39	Heart Rate-Corrected Mean Velocity of Circumferential Fiber Shortening
99PMSBLUS	C12204-03	Right Ventricular Anterior Wall
99PMSBLUS	C12207-03	Mitral Valve E-E Separation
99PMSBLUS	C12207-05	Tei Index
99PMSBLUS	C12209-01	Late Diastolic Slope
99PMSBLUS	C12209-02	A Wave Amp
99PMSBLUS	C12209-03	B-C Slope
99PMSBLUS	C12210-01	Pulmonary Artery Pressure using Accel Time
99PMSBLUS	C12212-01	Left Ventricle Systolic Pressure with Aortic Stenosis
99PMSBLUS	C12212-02	Left Ventricle Diastolic Pressure with Aortic Insufficiency
99PMSBLUS	C12220-09	Pressure
99PMSBLUS	C12222-01	Flow Radius
99PMSBLUS	C12222-02	Alias velocity
99PMSBLUS	C12222-03	Pressure Half-Time Peak velocity
99PMSBLUS	C12222-04	Acceleration Slope
99PMSBLUS	C12222-05	D-E Slope
99PMSBLUS	C12222-06	E-F Slope
99PMSBLUS	C12222-07	A-C Interval

99PMSBLUS	C12222-08	E to A Ratio
99PMSBLUS	C12222-09	Stenosis Peak Gradient
99PMSBLUS	C12222-10	Stenosis Peak Velocity
99PMSBLUS	C12233-01	Early Diastole
99PMSBLUS	C12239-02	Fractional Shortening
99PMSBLUS	C12243-01	Left Ventricle Posterior Wall
99SUP78	C12245-01	Aortic sinotubular junction
99SUP78	C12245-02	Aortic Sinus
99PMSBLUS	C3467-01	Ejection Fraction
99PMSBLUS	C3612-01	Atrial Contraction Reversal Peak Velocity
99PMSBLUS 99PMSBLUS	C3612-02	E Wave Peak Velocity
99PMSBLUS	C3612-03 C3612-04	A Wave Peak Velocity Tissue Velocity
99PMSBLUS 99PMSBLUS	C3612-04	Tissue Velocity During Atrial Systole
99PMSBLUS	C3612-05 C3613-01	Closure to Opening Time
99PMSBLUS	C3613-02	Isovolumic Relaxation Time
99PMSBLUS	C3613-03	Isovolumic Contraction Time
99PMSBLUS	C3613-06	Heart Rate-Corrected Ejection Time
99PMSBLUS	C3613-07	Heart Rate-Corrected Pre-Ejection Time
99PMSBLUS	C3613-08	A Wave Duration
99PMSBLUS	C3613-09	Ratio of Pre-Ejection Time to Ejection Time
99PMSBLUS	C7470-25	Thickness
99PMSBLUS	C7470-26	Internal Dimension
99PMSBLUS	C7470-27	D-E Excursion
99PMSBLUS	C7470-28	% Thickening
99PMSBLUS	C7471-05	Epicardial Area
99PMSBLUS	C7471-06	Flow Area
99PMSBLUS	C7471-07	Endocardial Area
99PMSBLUS	T12224-02	Tissue Doppler Imaging
99PMSBLUS	T5200-01	Hepatic Veins
99PMSBLUS	T5203-01	Simpson's Disk Number
DCM	109070	End Systole
SRT	F-00078	Stroke Index
SRT	F-04403	Aortic Root
SRT	F-32011	End Diastole
SRT	F-32100	Cardiac Output
SRT	F-32110	Cardiac Index
SRT	F-32120	Stroke Volume
SRT	G-037B	Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave
SRT	G-037F	Left Ventricular Index of Myocardial Performance
SRT	G-0381	Right Ventricular Index of Myocardial Performance
SRT	G-038E	Cardiovascular Orifice Area
SRT	G-038F	Cardiovascular Orifice Diameter
SRT SNM3	G-0390 G-A166	Regurgitant Fraction
SRT SRT	G-A166 G-A193	Area Major Axis
SRT	G-A193 G-A194	Major Axis
SRT	G-A194 G-A19B	Apical two chamber
SRT	G-A19D G-A19C	Apical four chamber
SRT	G-C036	Measurement Method
SNM3	G-D705	Volume
SNM3	M-02550	Diameter
SRT	R-0032C	Mitral Diastolic Filling Period (DFPm)
SRT	R-003A9	Tricuspid Diastolic Filling Period (DFPt)
SRT	R-40491	Left Upper Segment
SRT	R-4049E	Right Lower Segment
SRT	R-404A0	Right Upper Segment

SRT	R-42047	Antegrade Flow
SRT	R-4214B	Left Lower Segment
SRT	R-42E61	Regurgitant Flow

#### Pediatric Echo PDE / Study Info

Pediatric Echo PDE / Stu			
Label	Referenced Template ID (TID)	Туре	Units
Height	300	NUM	m
Weight	300	NUM	kg
Body Surface Area	300	NUM	m2
Systolic Blood Pressure	Private	NUM	mmHg
Diastolic Blood Pressure	Private	NUM	mmHg
Murmur	Private	CHECK	
Arrhythmia	Private	TEXT	
Chest Pain	Private	CHECK	
Cardiomegaly	Private	CHECK	
Cyanosis	Private	CHECK	
Dextracardia	Private	CHECK	7
Dyspnea	Private	CHECK	
Fever	Private	CHECK	7
Hemoptysis	Private	CHECK	-1
Hypertension	Private	CHECK	
IDM	Private	CHECK	-
Mesocardia	Private	CHECK	
Syncope	Private	CHECK	-
Pacemaker	Private	CHECK	-
			-
VSD	Private Drivate	CHECK	-
PDA	Private Drivete	CHECK	_
PS	Private	CHECK	_
AS	Private	CHECK	_
COA	Private	CHECK	_
TOF	Private	CHECK	_
PAPVR	Private	CHECK	_
Comp ECD	Private	CHECK	_
Part ECD	Private	CHECK	_
Comp TGA	Private	CHECK	_
Interr Ao Arch	Private	CHECK	
MS	Private	CHECK	
MVP	Private	CHECK	
HIV	Private	CHECK	
MR (MV regurgitation)	Private	CHECK	
Kawasaki	Private	CHECK	
Rheum. Fever	Private	CHECK	
AR	Private	CHECK	
Arrhythmia Type	Private	TEXT	
Murmur Type	Private	TEXT	
ASD	Private	CHECK	7
Cardiomyopathy type	Private	TEXT	
Infections Type	Private	TEXT	
Surgeries Type	Private	TEXT	
Comments	Private	TEXT	-
BSA via Weight only	Private	CHECK	-1
Acquired AS	Private	CHECK	-1
Acquireu AS	invale	CHECK	

#### Additional Codes and Modifiers Used Pediatric Echo – TID995300

T / CID	CSD	CV	СМ
TID 995300, Row 32	99PMSBLUS	C3010-01	Main pulmonary artery
	99PMSBLUS	C3010-03	Right Superior vena cava
TID 995300, Row 23	SNM3	T-4311A	Left anterior Descending Coronary Artery
TID 995300, Row 25	SNM3	T-43120	Circumflex Coronary Artery

T / CID	CSD	CV	СМ
TID 995300, Row 37	SNM3	T-43203	Right Coronary Artery
TID 995300, Row 38	SNM3	T-44200	Right pulmonary artery
TID 995300, Row 26	SNM3	T-44400	Left pulmonary artery
TID 995300, Row 10	SNM3	T-48610	Superior vena cava
TID 995300, Row 8	SNM3	T-48710	Inferior vena cava
TID 995300, Row 19	SRT	D4-32014	Coarctation of aorta
TID 995300, Row 22	SRT	T-32410	Interventricular septum
TID 995300, Row 9	SRT	T-48500	Pulmonary vein
TID 995300, Row 31	SRT	T-43107	Left Main Coronary Artery
TID 995300, Row 34	BARI	18	Proximal Circumflex Coronary Artery
TID 995300, Row 9	SNM3	D4-32012	Patent ductus arteriosus
TID X203, Row 5	99SUP72	T-2	Anatomical Site Modifier

# **Private Template Extensions**

The PDE and Study Info data that is not already part of the DICOM templates is included using the following template extensions, per the appropriate application.

	NL	Rel with Parent	νт	Concept Name	VM	Req Type	Condition	Value Set Constraint
9	>	CONTAINS	TEXT or DATE or NUM	DCID (99002) General Study Info	1	U		
10	>	CONTAINS	TEXT or DATE or NUM	DCID (99003) OB Study Info	1	U		
11	>	CONTAINS	TEXT or DATE or NUM	DCID (99004) Gyn Study Info	1	U		

# TID5001: OB-GYN PATIENT CHARACTERISTICS

Line 4.1 is used only with a user-defined table or equation.

#### **TID5008: FETAL BIOMETRY GROUP**

				_				
	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
3	>	CONTAINS	NUM	EV (18185-9 , LN, "Gestational Age")	1	МС	At least one of row 2 and 3 shall be present	Units = EV (d, UCUM, days)
4	>>	INFERRED FROM	CODE	DCID (228) Equation or Table	1	U	IF row 4.1 is absent	DCID (12013) Gestational Age Equations and Tables
4.1	>>	INFERRED FROM	TEXT	DCID (228) Equation or Table	1	U	IF row 4 is absent	
5	>>	R- INFERRED FROM	NUM		1-n	U		

#### **TID5101: VASCULAR PATIENT CHARACTERISTICS**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
7	>	CONTAINS	TEXT or DATE or NUM	DCID (99002) General Study Info	1	U		
8	>	CONTAINS	TEXT or DATE or NUM	DCID (99005) Vascular Study Info	1	U		
9	>	CONTAINS	TEXT or DATE or NUM	DCID (99006) Abdominal Study Info	1	U		

#### **TID5202: ECHOCARDIOGRAPHY PATIENT CHARACTERISTICS**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
9	>	CONTAINS	TEXT or DATE or NUM	DCID (99002) General Study Info	1	U		
10	>	CONTAINS	TEXT or DATE or NUM	DCID (99007) Adult Echo Study Info	1	U		

Trace Method indicates the specific trace type that was used by QLAB during the acquisition of measurement data.

#### **TID5203: ECHO MEASUREMENT**

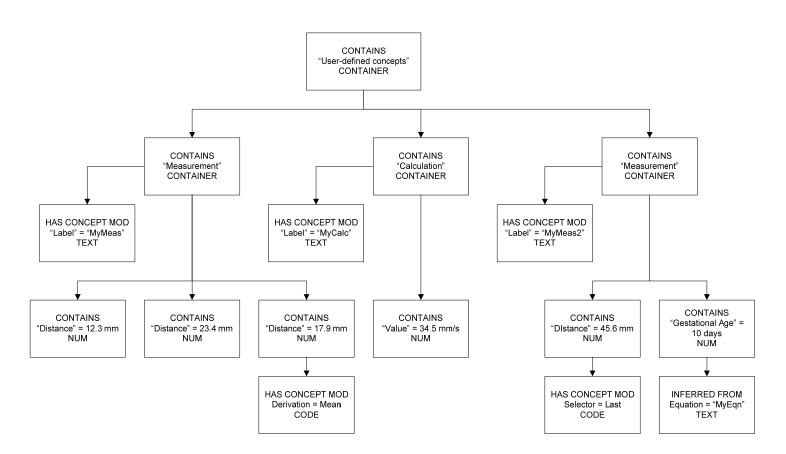
	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
7	>	HAS CONCEPT MOD	CODE	EV (G-C036- 99, 99PMSBLUS, "Trace Method")	1	U		DCID (99000) Extended Trace Type Modifier

# User-defined measurements and calculations

#### DESCRIPTION

In order to export all user-defined measurements and calculations, a generic structure was created that does not assign specific codes to the individual measurements, rather uses the label given by the user. This will allow all user-defined measurements to be treated in a uniform manner, without needing a per-site dictionary of user-defined codes.

#### STRUCTURE



# TEMPLATE DEFINITION

**Private Template and Template Extensions** 

#### **TID5000: OB-GYN Ultrasound Procedure Report**

	NL	Rel with Parent		Concept Name	VM	Req Type	Condition	Value Set Constraint
25	>	CONTAINS	INCLUDE	TID (9902) Fetal Heart Section	1	U		
26	>	CONTAINS	INCLUDE	TID (9900) User-defined concepts	1	U		

#### TID5100: Vascular Ultrasound Report

	NL	Rel with Parent	νт	Concept Name	VM	Req Type	Condition	Value Set Constraint
31	>	CONTAINS	INCLUDE	TID (9900) User-defined concepts	1	U		

#### **TID5200: Echocardiography Procedure Report**

	NL	Rel with Parent	<u>VT</u>	Concept Name	VM	Req Type	Condition	Value Set Constraint			
22	>	CONTAINS	INCLUDE	TID (9900) User-defined concepts	1	U					

#### TID995300: Pediatric Echocardiography Procedure Report

	NL	Rel with Parent	<u>VT</u>	Concept Name	VM	Req Type	Condition	Value Set Constraint
 22	 >	 CONTAINS	 INCLUDE	 TID (9900) User-defined concepts	 1	 U		

#### TID9900: User-defined concepts

				1				
	NL	Rel with Parent		Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	DT (T9900- 01, 99PMSBLUS, "User-defined concepts")	1	М		
2	>	CONTAINS	INCLUDE	TID (9901) User-defined concept	1-n	MC	One of row 2 and 3 must be present	Type = DT (T9900-02 $$ , 99PMSBLUS, "Measurement")
3	>	CONTAINS	INCLUDE	TID (9901) User-defined concept	1-n	MC	One of row 2 and 3 must be present	Type = DT (T9900-03 $$ , 99PMSBLUS, "Calculation")

#### TID9901: User-defined concept

	NL	Rel with Parent	νт	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	\$Type	1	М		
2	>	HAS OBS	INCLUDE	DTID (1008)	1	MC	IF this template	

	NL	Rel with Parent		Concept Name	VM	Req Type	Condition	Value Set Constraint
		CONTEXT		Subject Context, Fetus			is invoked more than once to describe more than one fetus	
3	>	HAS CONCEPT MOD	TEXT	DT (T9900- 04, 99PMSBLUS, "Label")	1	М		
4	>	HAS CONCEPT MOD	CODE	DT (G-C171, SRT, "Laterality")	1	U		DCID (244) Laterality
5	>	CONTAINS	INCLUDE	TID (300)	1	1-n	IFF \$Type = "Measurement"	\$Measurement = DCID (99008) Results \$Derivation = DCID (3627) Measurement Type
6	>	CONTAINS	INCLUDE	TID (300)	1	1	IFF \$Type = "Calculation"	\$Measurement = DT (T9900-05√, 99PMSBLUS, "Value")
7	>	CONTAINS	NUM	EV (18185-9 , "Gestational Age")	1	U		\$Units = EV (d, 1.4, UCUM, days)
8	>	INFERRED FROM	TEXT	DCID (228) Equation or Table	1	U		

#### **TID9902: Fetal Heart Section**

	NL	Rel with Parent		Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	DT (99999, 99PMSBLUS, "Fetal Heart")	1	М		
2	>	HAS OBS CONTEXT	INCLUDE	DTID (1008) Subject Context. Fetus	1	МС	IF this template is invoked more than once to describe more than one fetus	
3	>	CONTAINS	INCLUDE	DTID (5008) Fetal Biometry Group	1-n	Μ		\$Biometery Type=MemberOf (DCID (99001) Fetal Heart)

# TID 5009: Fetal Biophysical Profile Section

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	DT 125006,DCM,"Biophysical Profile")	1	М		
2	>	HAS OBS CONTEXT	INCLUDE	DTID (1008) Subject Context. Fetus	1	MC	IF this template is invoked more than once to describe more than one fetus	
3	>	CONTAINS	NUM	EV (11631-9,LN, "Gross Body Movement")	1	MC	At least one of row 3-7 shall be present	Units = DT ("{0:2}", UCUM, "range 0:2")

—	NL	Rel with Parent	νт	Concept Name	VM	Req Type	Condition	Value Set Constraint
4	>	CONTAINS	NUM	EV (11632-7,LN, "Fetal Breathing")	1	MC	At least one of row 3-7 shall be present	Units = DT ("{0:2}", UCUM, "range 0:2")
5	>	CONTAINS	NUM	EV (11635-0,LN, "Fetal Tone")	1	MC	At least one of row 3-7 shall be present	Units = DT ("{0:2}", UCUM, "range 0:2")
6	>	CONTAINS	NUM	EV (11635-5,LN, "Fetal Heart Reactivity")	1	MC	At least one of row 3-7 shall be present	Units = DT ("{0:2}", UCUM, "range 0:2")
7	>	CONTAINS	NUM	EV (11630-1,LN, "Amniotic Fluid Volume")	1	MC	At least one of row 3-7 shall be present	Units = DT ("{0:2}", UCUM, "range 0:2")
8	>	CONTAINS	NUM	DT (11634-3,LN, "Bipohysical Profile Sum Score")	1	U		

# TID 5016: Pelvis and Uterus Section

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	DT 125011,DCM,"Pelvis and Uterus")	1	М		
2	>	CONTAINS	INCLUDE	DTID (5016) LWH Volume Group	1	U		\$GroupName = EV (T- 83000, SRT, "Uterus") \$Width = EV (11865- 3,LN," Uterus Width") \$Length = EV (11842-2, LN," Uterus Length") \$Height = EV (11859-6, LN," Uterus Height") \$Volume = EV (33192-6, LN, "Uterus Volume")
3	>	CONTAINS	INCLUDE	DTID (300) Measurement	1-n	U		\$Measurement = DCID (12011) Ultrasound Pelvis and Uterus \$Derivation = DCID (3627) Measurement Type

#### Context Group 99008: Measurement Results (from Tools & Results tab in Analysis Config)

Result (long)	Result (short)	CSD	CV	СМ
Alias Velocity	Alias Vel	99PMSBLUS	C12222-02	Alias Velocity
Distance 1	Dist 1	99PMSBLUS	C7470-02	Distance 1 of 3 Distance Volume
Distance 2	Dist 2	99PMSBLUS	C7470-03	Distance 2 of 3 Distance Volume
Distance 3	Dist 3	99PMSBLUS	C7470-04	Distance 3 of 3 Distance Volume
Acceleration Index	AI	LN	20167-3	Acceleration Index
Acceleration Time	AT	LN	20168-1	Acceleration Time
Alpha	a	99PMSBLUS	C12122-04	Alpha of Hip Angle
Area	Area	SNM3	G-A166	Area
Area 1	Area 1	99PMSBLUS	C7471-01	Area 1 of Area Percent Reduction
Area 2	Area 2	99PMSBLUS	C7471-02	Area 2 of Area Percent Reduction
% Area Reduction	Area Reduc	SRT	G-0371	Percent Area Reduction
Beta	β	99PMSBLUS	C12122-05	Beta of Hip Angle
bpp	bpp			
Mean Pressure	Mean PG	LN	20256-4	Mean Gradient
Gradient				
Mean Velocity	Vmean	LN	11692-1	Time averaged peak velocity
Circumference	Circ	SNM3	M-02560	Circumference
D	D	99PMSBLUS	C7470-17	(D)Diameter of Circle in d:D Ratio
d	d	99PMSBLUS	C7470-18	(d)Distance Between Medial and Iliac line in d:D Ratio
d:D	d:D	99PMSBLUS	C12121-01	d:D Ratio
Deceleration Time	DT	LN	20217-6	Deceleration Time
Diam 1	Diam 1	99PMSBLUS	C7470-05	Diameter 1 of Diameter Reduction
Diam 2	Diam 2	99PMSBLUS	C7470-06	Diameter 2 of Diameter Reduction
% Diam Reduction	Diam Reduc	SRT	G-0372	Percent Diameter Reduction
Distance	Dist	DCM	121206	Distance

Result (long)	Result (short)	CSD	CV	СМ
Theta	θ	99PMSBLUS	C12122-01	Doppler Correction Angle
dP/dt	dP/dt	DCM	109025	Max dp/dt
Slope	Slope	99PMSBLUS	C99PMSBLUS-GM-01	Doppler Slope
Time	Time	99PMSBLUS	C99PMSBLUS-GM-02	Doppler Time
End Diastolic Vel	EDV	LN	11653-3	End Diastolic Velocity
EF	EF	99PMSBLUS	C3467-01	Ejection Fraction
Distance	Dist	99PMSBLUS	C7470-07	Distance of Ellipse Distance Volume
Heart Rate	HR	LN	8867-4	Heart Rate
Major Axis	Major	SRT	G-A193	Major Axis
Max PG	Max PG	LN	20247-3	Max Peak Gradient
Min Diastolic	MDV	LN	11665-7	Minimum Diastolic Velocity
Velocity	1101	2.1	11000 /	
Minor	Minor	SRT	G-A194	Minor Axis
Dist2	Dist2	99PMSBLUS	C7470-10	MMode Distance 2
Dist3	Dist3	99PMSBLUS	C7470-11	MMode Distance 3
Dist4	Dist4	99PMSBLUS	C7470-12	MMode Distance 4
Dist5	Dist5	99PMSBLUS	C7470-13	MMode Distance 5
Dist6	Dist6	99PMSBLUS	C7470-14	MMode Distance 6
Dist7	Dist7	99PMSBLUS	C7470-15	MMode Distance 7
Dist8	Dist8	99PMSBLUS	C7470-15	MMode Distance 8
Slope	Slope	99PMSBLUS	C99PMSBLUS-GM-03	MMode Slope
Time	Time	99PMSBLUS	C99PMSBLUS-GM-04	MMode Time
		99PM3DL03	C99PM3BL03-GM-04	
Percent	Percent PG	LN	20247-3	Peak Gradient
Pressure Gradient	MG	LN	20247-3	
Mean Pressure Gradient	MG	LIN	20256-4	Mean Gradient
Pressure Half-Time	P 1/2 t	LN	20280-4	Pressure Half-Time
Pulsatility Index	PI	LN	12008-9	Pulsatility Index
Peak Systolic Vel	PSV	LN	11726-7	Peak Systolic Velocity
Resistive Index	RI	LN	12023-8	Resistivity Index
Systolic/Diastiolic	S/D		12023-8	Systolic to Diastolic Velocity Ratio
Ratio	5/0	LIN	12144-2	
LV Area	LV Area	99PMSBLUS	C7471-04	Simpson Area
LV Length	LV Length	99PMSBLUS	C7470-09	Simpson Distance
LV Volume	LV Vol	99PMSBLUS	C7472-01	Simpson Volume
Time Avg Mean	TAMV	LN	20352-1	Time averaged mean velocity
Velocity	TAMV	LIN	20332-1	Time averaged mean velocity
Time Avg Peak	TAPV	LN	11692-1	Time averaged peak velocity
Velocity	17.11 V		11092 1	
Time	Time			
ICA/CCA Ratio	ICA/CCA Ratio			
Pressure	Pressure	99PMSBLUS	C12220-08	Blood Pressure
Velocity	Vel	DCM	122207	Blood velocity, peak
Max Velocity	Vmax	LN	11726-7	Peak Velocity
Min Velocity	Vmin	LN	20352-1	Mean Velocity
Volume	Volume	SNM3	G-D705	Volume
Volume Flow	Vol Flow	LN	33878-0	Volume Flow
Volume Flow Area	Area	99PMSBLUS	C7471-03	Area of Volume Flow
Volume Flow	Diam	99PMSBLUS	C7470-08	Diameter of Volume Flow
Diameter		55111002005		
Velocity Time	VTI	LN	20354-7	Velocity Time Integral
Integral				
cg.u	1	1	1	

# **Data Dictionary**

#### Key: CSD = Coding Scheme Designator; CV = Code Value; CM = Code Meaning

The following tables show how entries and selections made in specific Study Information pages will be exported in Structured Reports.

#### PDE AND STUDY INFO

#### Context: 99002, General PDE fields

CSD	CV	СМ	
99PMSBLUS	T9910-01	Patient's Name	
99PMSBLUS	T9910-02	Patient ID	
99PMSBLUS	T9910-03	Patient's Sex	
99PMSBLUS	T9910-04	Patient's Birth Date	
DCM	121106	Comment	
LN	8302-2	Patient Height	
LN	29463-7	Patient Weight	
99PMSBLUS	T9910-05	Accession Number	
99PMSBLUS	T9910-06	Sonographer	
99PMSBLUS	T9910-07	Study Description	
99PMSBLUS	T9910-08	Referring Physician	
99PMSBLUS	T9910-09	Exam date	
99PMSBLUS	T9910-105	Study Date	

### Context: 99003, OB Study Info

CSD	CV	СМ	
LN	11955-2	LMP	
LN	33067-0	Conception Date	
LN	11878-6	Number of Fetuses	
99PMSBLUS	T9910-103	Diabetic	
99PMSBLUS	T9910-104	Diabetic Type	
LN	11996-6	Gravida	
LN	11977-6	Para	
LN	11612-9	Aborta	
LN	33065-4	Ectopic Pregnancies	

#### Context: 99004, GYN Study Info

CSD	CV	СМ	
99PMSBLUS	T9910-10	Expected Ovulation Date	
99PMSBLUS	T9910-11	Abnormal Cycles	
99PMSBLUS	T9910-12	Birth Control Medication	
99PMSBLUS	T9910-13	Birth Control Medication Duration	
99PMSBLUS	T9910-100	Hormone Replacement Therapy	
99PMSBLUS	T9910-101	Hormone Replacement Therapy Year Started	
99PMSBLUS	T9910-102	Menopause	
99PMSBLUS	T9910-14	Pelvic Pain Right	
99PMSBLUS	T9910-15	Pelvic Pain Left	
99PMSBLUS	T9910-16	Bleeding	
99PMSBLUS	T9910-17	Bleeding Duration	
99PMSBLUS	T9910-18	Complete Hysterectomy	
99PMSBLUS	T9910-19	Partial Hysterectomy	
99PMSBLUS	T9910-20	Ovary Surgery Right	
99PMSBLUS	T9910-21	Ovary Surgery Left	
99PMSBLUS	T9910-22	Ovary Surgery Bilateral	
99PMSBLUS	T9910-23	Endometrium	

Context: 99005, Vascular Study Info			
CSD	CV	СМ	
99PMSBLUS	T9910-74	Smoker	

CSD	CV	СМ	
99PMSBLUS	T9910-75	Hypertension	
99PMSBLUS	T9910-103	Diabetic	
99PMSBLUS	T9910-104	Diabetic Type	
99PMSBLUS	T9910-24	Recent Injury	
99PMSBLUS	T9910-25	Surgeries	
99PMSBLUS	T9910-26	Aphasia	
99PMSBLUS	T9910-27	Double Vision	
99PMSBLUS	T9910-28	Memory Loss	
99PMSBLUS	T9910-29	Syncope	
99PMSBLUS	T9910-30	Confusion	
99PMSBLUS	T9910-31	Bruit	
99PMSBLUS	T9910-32	Stroke	
99PMSBLUS	T9910-33	Stroke Date	
99PMSBLUS	T9910-34	Endarterectomy Right	
99PMSBLUS	T9910-35	Endarterectomy Left	
99PMSBLUS	T9910-36	Endarterectomy Date	
99PMSBLUS	T9910-37	Hemiparesis Right	
99PMSBLUS	T9910-38	Hemiparesis Left	
99PMSBLUS	T9910-39	Weakness Right	
99PMSBLUS	T9910-40	Weakness Left	
99PMSBLUS	T9910-41	Amaurosis Fugax Right	
99PMSBLUS	T9910-42	Amaurosis Fugax Left	
99PMSBLUS	T9910-43	Obesity	
99PMSBLUS	T9910-44	Edema	
99PMSBLUS	T9910-45	Previous DVT Right	
99PMSBLUS	T9910-46	Previous DVT Left	
99PMSBLUS	T9910-47	History of Pulmonary Thrombus	
99PMSBLUS	T9910-48	History of Malignancy	
99PMSBLUS	T9910-49	Pregnant	
99PMSBLUS	T9910-12	Birth Control Medication	
99PMSBLUS	T9910-13	Birth Control Medication Duration	
99PMSBLUS	T9910-50	Claudication	
99PMSBLUS	T9910-135	Additional Clinical Information	

# Context: 99006, Abdominal Study Info

CSD	CV	СМ
99PMSBLUS	T9910-51	RUQ Pain
99PMSBLUS	T9910-52	LUQ Pain
99PMSBLUS	T9910-53	Midline Pain
99PMSBLUS	T9910-54	RLQ Pain
99PMSBLUS	T9910-55	LLQ Pain
99PMSBLUS	T9910-56	Periumbilical Pain
99PMSBLUS	T9910-57	Nausea
99PMSBLUS	T9910-58	Nausea Duration
99PMSBLUS	T9910-59	Vomiting
99PMSBLUS	T9910-60	Vomiting Duration
99PMSBLUS	T9910-61	Diarrhea
99PMSBLUS	T9910-62	Diarrhea Duration
99PMSBLUS	T9910-63	Weight Loss
99PMSBLUS	T9910-64	Weight Loss Duration
99PMSBLUS	T9910-65	Abnormal Lab Values
99PMSBLUS	T9910-66	History of Aortic Aneurysm
99PMSBLUS	T9910-67	Previous Measurement
99PMSBLUS	T9910-68	Aortic Aneurysm Date
99PMSBLUS	T9910-69	Cholesystectomy
99PMSBLUS	T9910-70	Cholesystectomy Date
99PMSBLUS	T9910-71	TIPSS
99PMSBLUS	T9910-72	TIPSS Date
99PMSBLUS	T9910-73	Other Surgeries

#### Context: 99007, Adult Echo Study Info

CSD	CV	СМ	
LN	8277-6	Body Surface Area	
SRT	F-008EC	Systolic Blood Pressure	
SRT	F-008ED	Diastolic Blood Pressure	
99PMSBLUS	T9910-74	Smoker	
99PMSBLUS	T9910-75	Hypertension	
99PMSBLUS	T9910-76	History of Rheumatic Fever	
99PMSBLUS	T9910-77	Congestive Heart Failure	
99PMSBLUS	T9910-78	Surgeries	
99PMSBLUS	T9910-79	Murmur	
99PMSBLUS	T9910-80	Murmur Type	
99PMSBLUS	T9910-81	Murmur Grade	
99PMSBLUS	T9910-82	Arrythmia	
99PMSBLUS	T9910-83	Chest Pain	
99PMSBLUS	T9910-84	Jugular Venous Distention	
99PMSBLUS	T9910-85	Dyspnea	
99PMSBLUS	T9910-86	Peripheral Edema	
99PMSBLUS	T9910-87	Fatigue	
99PMSBLUS	T9910-88	Ascites	
99PMSBLUS	T9910-89	Syncope	
99PMSBLUS	T9910-90	Infection	
99PMSBLUS	T9910-91	Dizziness	
99PMSBLUS	T9910-92	Fever of Unknown Origin	
99PMSBLUS	T9910-93	Hemoptysis	
99PMSBLUS	T9910-94	TIA / Stroke	
99PMSBLUS	T9910-95	Bioprosthetic Value Replacement Type	
99PMSBLUS	T9910-96	Bioprosthetic Value Replacement Date	
99PMSBLUS	T9910-97	Mechanical Value Replacement Type	
99PMSBLUS	T9910-98	Mechanical Value Replacement Date	
99PMSBLUS	T9910-99	Pacemaker	

# Context: 995300, Pediatric Echo Study Info

CSD	CV	CM	
LN	8302-2	Patient Height	
LN	29463-7	Patient Weight	
LN	8277-6	Body Surface Area	
SRT	F-008EC	Systolic Blood Pressure	
SRT	F-008ED	Diastolic Blood Pressure	
99PMSBLUS	T9910-136	Murmur	
99PMSBLUS	T9910-137	Arrhythmia	
99PMSBLUS	T9910-139	Chest Pain	
99PMSBLUS	T9910-141	Cardiomegaly	
99PMSBLUS	T9910-142	Cyanosis	
99PMSBLUS	T9910-143	Dextracardia	
99PMSBLUS	T9910-145	Dyspnea	
99PMSBLUS	T9910-148	Fever	
99PMSBLUS	T9910-149	Hemoptysis	
99PMSBLUS	T9910-150	Hypertension	
99PMSBLUS	T9910-151	IDM	
99PMSBLUS	T9910-155	Mesocardia	
99PMSBLUS	T9910-156	Syncope	
99PMSBLUS	T9910-157	Pacemaker	
99PMSBLUS	T9910-158	Ventricular Septal Defect (VSD)	
99PMSBLUS	T9910-159	Patent Ductus Arteriosus (PDA)	
99PMSBLUS	T9910-160	Pulmonary Stenosis (PS)	
99PMSBLUS	T9910-161	AS (Congenital Heart Defect)	
99PMSBLUS	T9910-162	Coarctation of the Aorta (COA)	
99PMSBLUS	T9910-163	Tetralogy of Fallot (TOF)	
99PMSBLUS	T9910-16	Partial Anomalous Pulmonary Venous Return (PAPVR)	

CSD	CV	СМ
99PMSBLUS	T9910-165	Complete Endocardial Cushion Defect (Comp ECD)
99PMSBLUS	T9910-166	Partial Endocardial Cushion Defect (Part ECD)
99PMSBLUS	T9910-167	Complete Transposition of the Great Arteries (Comp TGA)
99PMSBLUS	T9910-168	Interrupted Aortic Arch
99PMSBLUS	T9910-169	MV Stenosis (MS)
99PMSBLUS	T9910-170	MV Prolapse (MVP)
99PMSBLUS	T9910-171	HIV
99PMSBLUS	T9910-172	MV Regurgitation
99PMSBLUS	T9910-173	Mucocutaneous Lymph Node Syndrome (Kawazaki)
99PMSBLUS	T9910-174	Rheumatic Fever
99PMSBLUS	T9910-175	AV Regurgitation (AR)
99PMSBLUS	T9910-176	Arrhythmia Type
99PMSBLUS	T9910-178	Murmur Type
99PMSBLUS	T9910-179	Atrial Septal Defect (ASD)
99PMSBLUS	T9910-180	Cardiomyopathy type
99PMSBLUS	T9910-181	Infections Type
99PMSBLUS	T9910-182	Surgeries Type
99PMSBLUS	T9910-183	Comments
99PMSBLUS	T9910-186	BSA via Weight only
99PMSBLUS	T9910-187	AV Stenosis (acquired) (AS)

### **MEASUREMENT CONTEXTS**

#### Table of Units Codes

CSD	CSV	CV	СМ
UCUM	1.4	mm	mm
UCUM	1.4	ms	ms
UCUM	1.4	1/min	bpm
UCUM	1.4	mm/s	mm/s
UCUM	1.4	mm2	mm2
UCUM	1.4	mm3	mm3
UCUM	1.4	mm[Hg]	mmHg
UCUM	1.4	mm/s2	mm/s2
UCUM	1.4	mm[Hg]/s	mmHg/s
UCUM		1	no units
UCUM		%	Percent
UCUM	1.4	g	grams
UCUM	1.4	d	days
UCUM	1.4	deg	deg
UCUM	1.4	mm3/s	mm3/s
UCUM	1.4	mm/s2	mm/s2
UCUM	1.4	g/m2	g/m2
UCUM	1.4	l/min/m2	l/min/m2
UCUM	1.4	ml/m2	ml/m2
UCUM	1.4	m2	m2

# OB only and patient characteristics:

CSD	CSV	CV	СМ
UCUM		{0:2}	range {0:2}
UCUM		{0:8}	range {0:8}
UCUM	1.4	m	m
UCUM	1.4	kg	kg

# **APPENDIX B – BULK PRIVATE TAGS**

# B.1 BULK PRIVATE TAGS

The private tags listed below are intended to provide awareness of large data sets of private data from iU22 and iE33 datasets

Attribute Name	DICOM Tag	VR	Description
Private Data	200D.300E	OB	Bulk data
Private Data	200D,300B	OB	Bulk data
Private Data	200D,3CF3	OB	Bulk data

# \*\*\*\*\* End of Document \*\*\*\*\*